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Designing at the Cutting Edge of Battle: The 75th Ranger Regiment's Project Galahad

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ABSTRACT

This article addresses the formal introduction of military design into the 75th Ranger Regimental organizational form and function over the last few years by leaders and design facilitators through creative destruction and willingness to experiment in paradoxical and potentially radical ways for emergent Special Operations Forces (SOF) needs. This article presents the core concepts behind Project Galahad, including the need for its formation, the context in which it exercises thought and action, and its structure and form as a disruptive engine of designing for novelty in warfare. This effort demonstrates military design “success” within lofty conceptual goals such as “fostering innovation” or “disrupting legacy systems to provide novel opportunities.” Furthermore, this article shows how a broader design movement is simultaneously appearing in various incarnations and similar applications across the United States Special Operations Command (USSOCOM) and international special operations community.

KEYWORDS

Design; ranger regiment; SOF; operational planning

The 75th Ranger Regiment's role in driving change throughout the Army has roots deep within the history of American armed forces.¹ Rangers are known for employing novel, unconventional solutions to complex security challenges, and the recent organizational changes to Regimental staff structure and decision-making processes are no different. In pursuit of maximizing disruptive thinking and organizational transformation, the senior leadership of the 75th Ranger Regiment is forging a new cognitive path better suited for the dynamic, disruptive security demands of tomorrow's war. This article addresses the formal introduction of military design into Regimental organizational form and function over the last few years by leaders and design facilitators, and how each act of creation first required an act of destruction to create cognitive space for experimentation. That act of creative destruction would become known as “Project Galahad.”

This article presents the core concepts behind Project Galahad, including the need for its formation, the context in which it exercises thought and action, and its structure and form. It also includes contemporary examples of military design “success” within conceptual goals such as “fostering innovation” or “disrupting legacy systems to provide novel opportunities.” Furthermore, this article shows how a broader design movement is simultaneously appearing in various incarnations and similar applications across the United States Special

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Operations Command (USSOCOM) and international special operations community. To explain the rise of Galahad, we first must revisit the original demand for change under the leadership of the Rangers' Regimental Commander where, despite achieving "success" using the legacy form and function, he would nonetheless take risks to challenge the system within.

In Design, the term "reflective practice" refers to the strong self-appreciation of how and why one thinks and acts in order to generate dynamic alternatives (Beaulieu-Brossard & Dufort, 2017; Gero & Kannengiesser, undated; Schön & Rein, 1994). In late 2017, Colonel Brandon Tegtmeier, 20th Commander of the 75th Ranger Regiment (RCO), set a planning effort into motion as an exercise in *organizational reflective practice*. The RCO recognized the risk posed by a legacy paradigm that applied yesterday's practices to tomorrow's challenges. He decided to take unconventional action toward his own organizational form and took steps to upend the legacy, Prussian-designed Regimental staff system.² The RCO was unable to get the necessary levels of focused effort from his staff when problems did not neatly fit into an Army planning model. The Regimental Staff was not postured to provide the Regiment with, to paraphrase design theorist Buchanan, "that which was needed for tomorrow's battle but did not yet exist" (Buchanan, 1992, p. 18).

YESTERDAY'S VICTORIES DO NOT WIN TOMORROW'S BATTLES

Structurally unchanged since its inception, the Regimental Staff (RSTAFF) was based on the standard, industrial-era general staff system that rose to popularity after the Prussian army successes in the Franco-Prussian war of 1871 (Keegan, 1988, p. 40). This staffing model is steeped in a Ranger history as far back as the French & Indian War where Major Robert Rogers led a light infantry company in service of the British Empire by providing reconnaissance and special operations. His "Rogers" Rangers' standing orders helped shape infantry maneuver away from formalized, pitched battles into a far more fluid and adaptive form of ground combat based in the unorthodox security challenges of the New World. Rangers have seen combat in every American war since, though Ranger units were repeatedly disbanded after each conflict ended. As the Vietnam War left the U.S. Army in disarray, Army Chief of Staff General Creighton Abrams established a new peace-time Ranger Battalion with a charter to be a change agent and exemplar of excellence for the rest of the Army. Successive Battalions were born and in 1984 the Regimental Headquarters was established, marking the beginning of the modern Ranger Regiment and an identity of discipline and excellence: *those who do what the rest of the Army does, but further, faster, and harder fought*. Decades later, the Global War on Terror (GWOT) would thrust the Ranger Regiment into an era of what some now define as "post-conventional conflict" that would suggest alternative modes of thought and action in war, even at the strong resistance of established military beliefs representing the modern era of warfare (McFate, 2019; Paparone, 2013).

Since October 2001, the 75th Ranger Regiment has been continuously deployed in support of the GWOT; over half of the modern 75th Ranger Regiment's 34-year existence as of this writing. The resulting evolution of contemporary Ranger identity is inextricable from combat operations in the Middle East and South Asia. The Regiment's GWOT experience both reinforced historic strengths and presented new, emergent challenges within the context of hundreds of rotations to the same operational mission set. This

continuity generates processes and structures that are highly effective at economizing practices and maximizing convergent standardization. The operational demand for continuity leaves little room for those who stray outside time-proven institutional practices. The uncertainty of war makes experimentation, even in conceptual forms, a difficult and controversial undertaking.

Despite this legacy frame, the RCO saw the emerging complex security environment of the 21st century as something that required a new way of operating at the Regimental level, starting with his staff's structure and processes. The rigid, bureaucratic structure of the RSTAFF made it difficult for the unit to address new challenges with old forms; to handle emerging, ambiguous, and complex problems while "keeping the trains running on time." By disrupting it, the RCO would introduce the space necessary to foster novel military thought and action that was otherwise unattainable in the previous structure. In June of 2017, he directed Regimental planning efforts to address this organizational question of both function *and* form. He charged a small team to get to work on alternatives options, providing them ample resources and virtually no conceptual restrictions. The multi-month design inquiry confirmed that the RSTAFF's traditional, Prussian-style structure limited its ability to effectively mass on multiple complex problems requiring expertise from across the RSTAFF. More importantly, however, it was the insular culture arising as an artifact of this structure that drove the human behaviors responsible for these tensions.

Planners proposed two options to transform the Regiment away from the legacy organizational structure. The RCO could re-organize the entire RSTAFF into cross-functional cells aligned to his priorities or establish a standing cross-functional team (CFT) with a sole focus on discrete complex problems determined by the RCO. Whichever choice was made, the Regiment would need to retain the ability to efficiently operate within the larger Army system as well as continue all combat operations ongoing for national security requirements. The re-organize option that flipped the Prussian-style staff structure on its head would be recognized as the superior option, despite the vast undertaking required. However, planners warned that eliminating legacy directorates risked functional chaos in coordinating with adjacent units and did nothing to prevent new silos from taking shape under a different moniker. The CFT, on the other hand, would be independent and unconstrained by existing doctrinal, institutional, or legacy form and function. It would be a dynamic and highly experimental "studio for war" within the Regiment, unlike any other staff function.

The Regiment's most acceptable option became to add an additional staff entity devoted entirely to the "deeper" issues within the organization. Named PROJECT GALAHAD in a nod to the code name given the Regiment's WWII predecessors, Project Galahad answered directly to the RCO, whose charter to the newly minted team was simple and direct: *Generate quick results through focused effort and be judged by the results produced for the Regiment.*³ Importantly, the RCO directed the team to develop solutions, not execute them; that was for the staff to do. Galahad acted autonomously and independently of the Regimental staff, in entirely unorthodox forms devoid of traditional staff rules and requirements. There were no limitations and no restrictions on budget, travel, or schedule. There were no requirements to attend daily battle rhythm events or meetings. Galahad took guidance directly from the RCO and coordinated with the Regimental Executive Officer, Regimental staff primaries, and the Battalion Executive Officers. This unique cell was not a "shadow" staff or merely a think tank existing at the "ivory tower" level of an organization

as some Commander Action Groups (CAGs) have been critiqued in being.⁴ It was not an industrial “R&D” center either, as Galahad would exist to address the most vexing and convoluted Regimental issues on the RCO’s plate. Rather, Galahad was an experimental complex problem-solving cell at the tactical level for an O-6 Commander frustrated with his organization’s inability to solve them.

Galahad would need to break out of the institutional norms of the legacy Regimental staff structure to critically self-reflect, experiment with alternative concepts, and introduce radical unconventional options that came with their own risks, opportunities, and consequences. Often, design activities would unfold in unfamiliar ways, yet through experimentation and alternative theories the design action would open new cognitive doors for the command team to explore entirely different opportunities for thought and action. Through three years of experimentation underpinned by complexity theory and reflective practice, Project Galahad undertook a new way of thinking far removed from the traditional processes of doctrine. This shift would be from analytic optimization and reductionism toward that of divergent and experimental thinking: *military design*. The term here is not at all pigeonholed within the narrow confines of U.S. Army Design Methodology or any single service-imposed doctrinal template for designing.⁵ Instead, Galahad follows a multidisciplinary design school of thought espoused across SOCOM and beyond by the Joint Special Operations University and other similar multidisciplinary programs.(Beaulieu-Brossard, 2020; Jackson, 2019a; Zweibelson, 2017b; Zweibelson, Whale, & Mitchell, 2019)

Galahad in execution since 2017 has provided a 'Janusian mindset'(Rothenberg, 1971) for the Regiment, presenting paradoxical and alternative concepts while disrupting traditional military modes of logic such as linear-causal thinking, singular end-states, and an over-emphasis on engineering and analytic reasoning in war.(Bloomfield, Burrell, & Vurdubakis, 2017, p. 2; Meiser, 2016; Monk, 2017) Galahad enables this partly through its unique posture as a crossover between the varying “silos” of the Regiment and its access to multiple stakeholder perspectives from across the USSOCOM enterprise. It operated within dozens of networks, leading it to synthesize perspectives from across the organization. This included unpopular, ancillary, or even counterintuitive positions on difficult, elusive topics concerning the Regiment. It also served as something of a “blind-spot” catch for many staff efforts, although not limited to addressing the function and maintenance of existing institutionally sanctioned practices, methods, and doctrine such as an Army Red Team. Rather, Galahad *could question the form itself*, and consider radical and highly disruptive concepts that would normally be dismissed or marginalized in conventional discourse. To accomplish this, the Galahad team would adapt irregular and nonlinear battle rhythms and engage across the organization in an emergent fashion. The virtue of being welcomed and present amongst the varied clans substantially enhanced the effectiveness and understanding of a Galahad design activity, compounding the return-on-investment for the organization. This would also soften the institutional resistance to consider highly unorthodox concepts, the critique of deeply cherished organizational processes, as well as amplify minority perspectives.

Designing for security challenges is now taking hold in a powerful way within the 75th Ranger Regiment. Ranger Battalion Command Sergeants Major now send junior Noncommissioned Officers to formalized design courses that expose them to various design schools of practice and competing theoretical bases. Ranger staff officers seek out a variety of design practices and self-development well outside the traditional military planning

methods or PME-centered decision-making program offerings. This transformation took several years of gradual, grassroots efforts centering largely in the Galahad cell while influencing larger and larger effects across the Regiment. This would culminate in an institution-wide design effort that cemented military design ethos across the Regimental leadership.

In March 2020, Colonel Todd Brown, the 21st Regimental Commander hosted a 3-day design conference with over 100 participants from across the entire Regimental command teams and key staff sections. Design facilitators from SOCOM's Joint Special Operations University led a series of design exercises that generated rich, collaborative dialogue, followed by tangible decisions about future task organization, senior enlisted management, and focused equipment modernization efforts.⁶ While some initially found the tables full of LEGO, markers, and Post-It notes curiously out-of-place for a leadership off-site event in the Ranger Regiment, by the end of the 3-day design workshop, participants walked away with a newfound appreciation of the benefits of military design practice as applied to complex security challenges for the Regiment. This conference proved the exceptional value of investing in divergent, disruptive, and unorthodox modes of *sensemaking* for complex security challenges outside of doctrinal or institutionally sanctioned forms.

Project Galahad has formalized a culture of flattened, dynamic innovation within the Regimental force structure to provide the Regimental Command Team with radical concepts, alternative perspectives, and critical reflection concerning Regiment's crucial mission set and strategic orientation. This is the birth of a military design team tailored to a Brigade-sized Infantry force with special operations capabilities and national-level mission orientation.

THE MEANING OF DESIGN AND ITS RISE TO MAINSTREAM SECURITY STUDIES

Project Galahad first encountered military design concepts while searching for broadening opportunities at the Joint Special Operations University (JSOU). Galahad members attended JSOU's *SOF Design & Innovation Basic Course*, a week-long immersion into design thinking, systems theory, postmodern warfare, and a wide range of disciplines within a dynamic classroom environment where unorthodoxy became the norm from the first day's "ice-breaker" exercise (The JSOU JAWS Exercise and How SOCOM is Dropping Cognitive Tools with Military Design – YouTube, 2020). Through this and subsequent courses on design, disruptive and critical thinking, Galahad quickly determined that security design would be an important core component of how it would onboard new members and approach complex security challenges for the Regiment. To Project Galahad, design thinking *itself* represented what the RCO had known the organization needed but did not yet possess: a mode for unlocking novelty and shedding irrelevant or outdated practices quickly. It was a different, yet effective way to approach "wicked" problems that did not lend themselves to traditional staff processes and structures (Buchanan, 1992; Conklin, 2008; Nelson & Stolterman, 2014).

The modern concept of designing for societies originated with the Industrial Revolution, primarily in commercial applications where the product design became the central focus. Modern design seeks what is "new" or an improvement for users, goods, and services; more abstractly, for human expression of organizations, decision-making, and understanding complex reality (Buchanan, 1992, p. 18; Krippendorff, 2000, pp. 2–4; Protzen & Harris,

2010). Militaries are exceptionally proficient in convergent thought and action where analytic optimization, uniformity, and repetition permit rapid exploitation of known “best practices” even within the chaotic landscape of human organized conflict. However, militaries are notoriously ill-equipped to pivot to divergent, experimental, and emergent practices in these same contexts. Instead, the institutional straitjacket of ritualization, legacy belief systems, and linear, causal reasoning tend to close military organizations off to real critical reflection upon the “why” of how militaries think and act in war. Thus, designing in security applications requires an ability to realize why one’s organization thinks and acts in war the way it does, to critically reflect and challenge processes that require adjustment, disruption, or elimination.

As a verb, to “design” is to create an idea, method, activity, or tangible artifact that did not exist previously, and is needed (but not necessarily wanted yet) by the military organization frustrated by existing constructs proving insufficient or counterproductive to current warfare. There is a decidedly destructive aspect of design, in that before one creates the novel, an existing flawed or outdated construct must be selected for destruction as frequently stated by the father of military design, Israeli Brigadier General (retired) Shimon Naveh.⁷ Every historically significant figure from Aristotle to Martin Luther King Jr. first destructively challenged legacy paradigms before giving rise to alternative methods of sensemaking. Conventional military decision-making methodologies essentially lack any mechanism for challenging the status quo or reflection beyond that which is prescribed within doctrine and practiced (Graicer, 2017b; Jackson, 2019a; Naveh, Schneider, & Challans, 2009; Paparone, 2019; Ryan, 2016). Whether at national military training centers, military classrooms or in combat, the military organization is rewarded for following set rules and processes or improving them and discouraged or even punished for attempting activities that disrupt, contradict, or damage the institutional standards and dominant beliefs. Unorthodox or experimental constructs are neither welcomed nor generally authorized unless filtered through a rigid and hierarchical vetting process for inculcation into existing military doctrine and education. This normally suppresses or terminates any real innovation or drives it underground.

Military design has been for decades an underground movement comprised of heretics, outsiders and trouble-makers critical of the dominant military form and function; this makes for designing in warfare to be a career hazard. Nonetheless, designers have demonstrated a deep desire to improve and break with irrelevant military form and function since the beginning. The first example of formal military design methodology placed into operation occurred in the 1990s with the Israeli Defense Forces and represents the first time a design logic attempted not to enhance, *but to entirely replace* a military’s sensemaking and decision-making methodology for theory and action in war (Feldman, 2007; Graicer, 2017a; Weizman, 2007, pp. 210–212). Today, there is an ever-growing military community of practice that researches, experiments, and practices with a wide range of international military design methodologies across multiple disciplines and from the tactical and technological to the strategic and multi-national partnership levels in war (Beaulieu-Brossard & Dufort, 2017; Jackson, 2019a; Zweibelson, 2018). Military design in various formats now exist in multiple service doctrines, is provided at many different levels of professional military education (PME). Due to design’s emphasis on disruption and drawing from radical fields such as postmodernism and other areas well outside established military topics of research, design is critiqued as being too confusing, difficult to learn, too unorthodox to

become mainstream, and too radical to be integrated into modern military strategy and planning activities. Despite the controversial aspects of design, the topic also continues to be associated with terms such as: innovation, disruption, transformation, and game-changing aspects of security challenges.

A military design team equipped with design education and *given the expectation to think divergently* will assume a deeply disruptive, experimental role that generates new cognitive maneuver space for that unit command team. Many of the institutional “sacred cows” are set for slaughter, and a reflective mind-set attempts to consider the organization systemically (system-wide, interconnected, dynamic, emergent) over the reductionist preference found in analytical rationalization (break things down, categorize, apply rules, reassemble, solve) (Morgan, 2006, pp. 1–36; Naveh et al., 2009; Putnam, 1983). Furthermore, military design teams operate in a continuous cycle of divergent and convergent processes rather than attempt to force a single, convergent pathway to a solution. Military designers reflect on their internal values and belief system and acknowledge their frame for understanding reality and war. They then seek alternative perspectives that unlock entirely dissimilar ways and meaning for the organization to reframe the security context (Zweibelson, 2016, 2017a). The creativity and open-mindedness to consider ‘*what could be*’ as opposed to “*what must be*” requires humility and the ability to continuously question one’s assumptions and biases. The divergent, iterative, and experimental aspects of this design approach require very different skills, support, and interaction within the military organization (Graicer, 2017a; Jackson, 2019a; Martin, 2011, 2015).

While the concept of iterative experimentation is critical for success in complex systems, it is dangerous territory for a design team operating in a results-oriented military institution. Where business leaders would applaud even a 25% success rate on projects derived from research & development, military leaders often do not have the time, tolerance, or resources for “failed” experimental approaches to change. Military culture often features a deep institutional fear of the concept of failure and contemporary professional development discussions and ethics reform efforts experience major issues with how and why “failure” is understood. Commanders are naturally reticent to break things that have worked “well-enough,” in their organization, and often look for results to beat the tyranny of the command timeline. Field grade leaders with a low career tolerance for modest evaluations are unlikely to assume the risk of coloring outside the lines. These are broad brush strokes, but fair ones in that the military innovators in modern history are often visionary and also frequently punished or ostracized by their peers. They are later revered by subsequent generations that benefited from their willingness to challenge the system at great personal sacrifice. This does not make for attractive career decisions nor inspire creative risk at any level in most military organizations despite the popularized slogans and claptrap by senior leaders for “out of the box thinking” and “learning organization”, “innovative forward thinking” and the like.

Militaries appear to readily accept change if it is incremental and additive to existing practices. The military organization frequently brokers in addition while avoiding subtraction (Lauder, 2009; Paparone, 2019; Zweibelson, 2015b). Change that disrupts, destroys, or replaces deeply cherished practices or established beliefs and identity is much less common, and the fear of such radical disruption generates significant opposition and skepticism. Thus, it becomes critical for the organization and for the design team to translate novel concepts into actionable planning criteria that do not risk outright organizational rejection.

The message of the idea itself must be carefully crafted (Naveh, undated document; Tsoukas & Hatch, 2001; White, 1990). To effectively translate design to action, designers must become familiar and comfortable with an organization's resistance to change and contemplate a variety of modes to enact substantial transformation despite these resistances. Often the solution the organization *needs*, as defined by the design team, is radically different than what the organization will *accept*, and frequently the call to drop one's favored conceptual tools to pick up unfamiliar or novel ones becomes a major undertaking for institutional reform (Weick, 1993, 1996).⁸

Learning from several implementation failures early in the program, Project Galahad adopted a conceptual, "some is better than none" approach. The team had to learn that the accepted idea may be only a loose derivative of the "best" approach. In 2017, for example, the "best" option would have been to re-design the entire RSTAFF, yet the corresponding disruption all but ensured the broader institution would reject such radical experimentation and disruption of the established norm. The "acceptable" solution was, therefore, Project Galahad itself. With a deliberate focus on the implicit and explicit needs of key stakeholders and deep reflection, design teams can anticipate this institutional resistance and account for it early. If done persuasively and within a dynamic and imaginative format, teams will be able to offer a range of compelling design opportunities set within a range of possible futures. A rich design narrative frames these opportunities to explain the opportunities, risks, and anticipated consequences of these novel actions.

CONSTRUCTING A GALAHAD WITHIN THE TRADITIONAL INFANTRY ORGANIZATION

The 75th Ranger Regiment is unlike most other Army Infantry Brigades in two important regards. Admittedly, these enabling factors give the organization a distinct edge in creating a team such as Project Galahad. First, the Rangers enjoy the luxury of the first pick of the top-quality professionals desiring service in any capacity in the organization. There is no shortage of high performers waiting in line for their chance to join the organization. Secondly, the Ranger Regiment enjoys a higher level of resources and force flexibility than most BDE-sized organizations. However, the team would come to find that it was not the talent, money, or authorities that truly gave them an edge. Anyone in Galahad would say this was possible in any Army Brigade with appropriate command emphasis and the right mix of people with *the right attitudes*. Ironically, the best security designers are often not also the best planners; expecting a strong military planner to flip from high-convergent reductionist analysis into high-divergent ideation and experimentation is a common failure in military design talent management. Even worse, military organizations that "dual-hat" staff operational planning cells to oscillate from design to planning in compressed timelines will often just get one and never the other.

The Rangers learned from these previous institutional failings, and took additional consideration in how, why and where to implement a dedicated design team for maximum impact. For Galahad to prove most effective to the organization, a culture of psychological safety and humility among its members was paramount. Without it, Galahad would conform to the identity and opinions of its senior officer at the sacrifice of free exchange of thought that could develop more thorough concepts. Galahad had to challenge, disrupt and even confront the RCO with both a design alternative framing of the legacy system (how

things have been) as well as a controversial and experimental range of alternative futures and normative options (what *could be* for Regiment in a wide range of unimagined tomorrows that challenge the traditional expectations). This degree of discourse, controversy, and experimentation requires careful yet bold initiatives and mature personalities.

Leaders manned Galahad primarily based on assessments that candidates had the right personality. The importance of building Project Galahad as a “team” rather than a “section” would enhance cohesion and foster a completely trusting context needed to radically challenge Regimental sacred cows. This team dynamic allowed for a whole greater than the sum of its parts; where accountability, creativity, and the free exchange of ideas and perspectives could emerge in a safe, encouraging context. It was, therefore, necessary to strike a balance of people humble enough to check their ego and recognize how their experiences give them a unique paradigm or “window” through which they see the world. They would also need to be willing to question the status quo and deconstruct assumptions that could evoke vigorous resistance. COL Tegtmeier and later COL Brown would not pile all the Regimental top performers into one special design cell, nor would they invoke staff fratricide by granting exclusive and superior access to this particular team in disruption of existing institutional norms. Rather, the RCOs took a tailored approach by combining the personalities most conducive to supporting the Galahad mission as a new supporting element within the overarching Regimental purpose.

Galahad learned that the ideal number of members was between 5–6 people. Less than five led to groupthink while more than six led to cliquing or potentially factions within the design team. In the Regiment, the preponderance of these came from Rangers that would otherwise supplement the Regimental operations section (S3 shop). The core of the design cell consisted of a senior MAJ, CPT, MSG, and civilian contractor. Galahad needed a senior field grade with a high level of influence in the organization to coordinate at the requisite levels required, acknowledging the unavoidable power dynamics of military centralized hierarchies. A senior captain would coordinate and direct team efforts and serve as the action officer of the design cell. A Senior Enlisted Advisor (E-7+) with organizational experience and influence provided a senior enlisted perspective, engaged directly with the Regimental Sergeant Major and facilitated access with the enlisted population. The civilian contractor provided continuity and knowledge management as Rangers rotated positions. For the remaining few, it was critical to have members of diverse backgrounds with unique experiences inside and outside of the organization so that Galahad could foster diversity of thought and enable multiple stakeholder perspectives, even internally. Even a team member that had just joined the Regiment provided value with no conditioning to the cultural norms and processes that could inhibit divergent thought.

Galahad, by the very intent of their composition and “anti-staff” configuration that bucked the Regimental standardization and traditional norms, would take particular actions to attempt to mitigate any potential “them versus us” tensions aforementioned as observed in similar Strategic Initiative Groups (SIG), CAGs and military think tanks.⁹ Sensitive to how the lack of participation in the daily churn of the staff may be perceived, Galahad placed special emphasis on performing essential “Ranger tasks” at every available opportunity, thus softening the tension of a design cell seemingly able to diverge from otherwise rigid organizational rulesets. They manifested for every airborne operation, participated in “Standards Week” events, and pulled their weight in staff duty shifts.¹⁰ While not required to attend meetings, Galahad’s OIC would deliberately attend as often as practical to

maintain touchpoints with the staff and keep a pulse on organizational initiatives. This was in addition to the unorthodox engagements Galahad was doing simultaneously to the directed Regimental meetings and battle rhythm.

To get the most return on investment while prioritizing experimentation and imagination, Galahad established a deliberate onboarding process to prime Rangers to “drop their tools” conceptually and begin to reflectively practice a design outlook that would augment Galahad’s almost “pirate organization” existence at the edge of innovation, experimental risk, and real-world consequence for disrupting the organization.¹¹ The onboarding process included completion of JSOU’s premier “Basic Design and Innovation Course” or SOC3440, where students are introduced to many of the design methodologies that frequent the Galahad workspace.¹² The Regiment would later make the JSOU design course mandatory for all Galahad new cell members from 2019 onward, and recommend Regiment-wide attendance when possible to inculcate design thinking across the organization and seed future Galahad recruits.

To maximize the organization’s return on its investment in Galahad, Regimental leadership sponsored extensive training and education opportunities for the team. Galahad leaders created a holistic development program focused on leading theories and practices in brain and social sciences and creative problem solving. Galahad discovered and participated in the Brain Performance Institute’s “Strategic Memory Advanced Reasoning Training (SMART) Training”.¹³ This course, developed through research from the UT Dallas’ Center for Brain Health, informs participants on daily routines and methods that engage frontal networks and bypass the limbic system to develop deeper level thinking, creativity, and meaningful learning. Galahad would also draw from the multi-disciplinary design education at JSOU and pair that with this psychological-biological approach to creativity from the SMART program. Galahad members took the NEO-PI-3 assessment,¹⁴ with follow up executive coaching from the Regimental psychologist to increase self-awareness and to effectively account for the impact of a new member on the overall network of personalities for the team. To round out this process, a series of readings and podcasts were developed, to include Cal Newport’s “Deep Work,” which serves as a guide to limiting distractions and focusing on cognitively demanding tasks (Newport, 2016). Galahad’s multi-disciplinary education would require time, resources, and the energy of Regimental leadership to build a powerful, tailored design cell capable of executing the demanding requirements as envisioned by COL Tegmeier and further enhanced by COL Brown.

MILITARY DESIGN IN ACTION: HOW GALAHAD CONTRIBUTED VALUE TO THE REGIMENT

In the fall of 2017, the Ranger Regiment found itself facing the challenges of near-peer warfare when the Comprehensive Nuclear Test Ban Treaty Organization (CTBTO) detected an unusual seismic event in East Asia (2017Sept DPRK: CTBTO Preparatory Commission, n.d.). American policymakers interpreted this event as a show of force and a threat to U.S. National security. The Department of Defense quickly diverted its focus to “Large Scale Conflict”, and the Ranger Regiment, still engaged in the counter-terrorism fight, had to be prepared to do the same. Project Galahad’s first task materialized here and represented a difficult mission-set for an organization that had been largely engaged in the GWOT for two continuous decades of combat rotations. Galahad initiated movement on the RCO’s

broad aspiration: “*prepare the Regiment to pivot toward war on the Korean peninsula.*” Galahad logged extensive international travel to hold planning sessions and discourse with a disparate range of stakeholders and synchronize efforts with key influencers in the SOCOM enterprise. Galahad’s design recommendations here would drive the RCO’s decision to fundamentally change the training cycle and reallocate resources to initiatives addressing critical shortfalls. With this major shift in how the Regiment planned and prepared for business, Galahad earned immediate credibility as a “heavy-hitting” entity of the Regiment in uncertain times and emergent, unfamiliar challenges.

Another “early win” for Galahad was its second major design project: redesigning a Campaign Plan (CAMPLAN) for the Regiment. Campaign planning is a classic implementation of the “ends-ways-means” construct at the operational level of war. It consists of the linkage of tactical operations to achieve strategic objectives, centered on the military hierarchical form and function (Meiser, 2016; Monk, 2017; Naveh, 1997, pp. 8–14; Naveh et al., 2009, pp. 36–46; Paparone, 2008, 2013, pp. 90–97; Zweibelson, 2015b). CAMPLANs are often unwieldy and cumbersome, capturing dozens of Lines of Efforts (LOE), sub-LOEs, supporting tasks, and priorities. The RCO realized the bureaucratic creep of the process coupled with the increasingly incompatible, rigid planning format and cautioned that “. . . *this cannot become something that is hundreds of pages long, pontificating without any real use or application to the force.*”¹⁵ As Galahad represented the innovation cell for the Regiment, it needed to appreciate the methodological structural issues with the CAMPLAN form *itself* instead of attempting to generate alternative yet doctrinally adherent variations that would still result in an overly rigid, mechanistic, and legacy oriented product. Galahad would focus on the design tensions existing somewhat abstractly throughout modern military planning methods, and alternative design considerations that could modify or circumvent some of the major concerns for the Regiment.

Galahad drew from design theory as well as the wide commercial application of scenario planning (or strategic foresight) that organizes differently from the reverse-engineered, analytically optimized military “single desired end-state” logic (MacLean, 2008; Sikander, 2016; Wack, 1985; Wilkinson & Kupers, 2013). Instead of generating a CAMPLAN, Galahad developed what it called the “Ranger Strategy Process” that deviated from the traditional single-desired-future state for CAMPLAN structuring. The Ranger Strategy Process included an annual conference bringing together dozens of the Regiment’s senior leaders to discuss investments for the future and capitalized on considering multiple alternative futures where the Regiment would not eliminate undesired ones in an analytic, reductionist fashion. Rather, they would explore opportunities, risk, and consequences across multiple diverse and often paradoxical futures. This system helped ensure key decisions were made with not just the current commander in the room, but the next three. A range of possible and emergent futures were considered, particularly some radical ones that were controversial and often unimagined if drawing from previous linear strategic constructs for Regiment associated with established Regimental methods.

In another example of Galahad providing design deliverables for the Regiment, it would focus on Ranger talent management. In July of 2019, COL Brown gave Galahad a project he titled the “War for Talent.” His aspiration was for the team was to design a new system that would, “*Recruit, sustain and retain the most talented NCOs in the Army.*” To implement such a program, Galahad first had to appreciate the system and the behaviors that drive Rangers to depart military service, reenlist for more time in the Regiment, or to assess for

other organizations. Members traveled to every Ranger Battalion to hold rank-free interviews in civilian attire with cross-sections of the formation. Galahad surveyed Rangers from Private to Sergeant Major to gain an appreciation of their lives, desires, beliefs, and careers. This was under the human-centered design approach of “stakeholder analysis” or “empathy mapping.” Galahad sought to learn both the “what” *and* the “why” behind stakeholder thoughts, feelings, actions, and words. The meaning behind the decisions and the narratives from a wide range of stakeholders outlined core tensions and highlighted ways to disrupt or challenge some institutional barriers for retention and recruitment transformation.

Galahad ultimately proposed a design opportunity to experiment which formed a completely new staff section to meet the education, wellness, and career management needs of Rangers in a different model than previously done. In a symbol relatable to the warrior mind-set of Rangers, they named it the PHALANX program, an ode to the Greek Phalanx, where the effectiveness of the force was dependent on its weakest link. The program consisted of three pillars that formalize career progression, facilitate continued education, and provide resources to enhance human performance – both physically and mentally.¹⁶ This program continues through today with continued development and a fusion of design thinking coupled with immediate military planning and evaluation.

CONCLUSIONS AND ANTI-CONCLUSIONS

To the outside observer, Project Galahad has, quite frankly, met with more failures than successes. Yet those failures were within the iterative design process of experimentation, critical reflection, and reframing to consider new opportunities, risks, and consequences. In some ways, the embrace of iterative, dynamic “experiment-fail-reflect-opportunity” is different, unorthodox, and even disruptive to deeply cherished Ranger values. Yet Galahad has offered the Ranger Regiment something that it has never had before: a dynamic, radical approach to problem framing that exists outside of the “ends, ways, means” and clear “identify the problem, execute a preplanned solution, assess” logic that has been a framework for Ranger Officers and NCOs for years. The failures of Project Galahad represent the holistic process where, over time, major innovations become reachable that otherwise were impossible to see (Stanley & Lehman, 2015). To the untrained eye, these failures will appear as pointless efforts that lack direction or substance; criticism of design typically demands some guarantee of success before the experimentation is even undertaken which reflects complete misunderstanding of design in war. However, as Amazon’s Jeff Bezos says, “You have to be willing to be misunderstood if you’re going to innovate” (Clifford, 2018). Substantive change is rarely clear until well after the dust settles.

On the other hand, the Regiment’s willingness to “fail fast” and to accept an unfinished product led toward much of Galahad’s successes as well as a reflective practice of “thinking about one’s thinking” for learning through disruption (Beaulieu-Brossard & Dufort, 2016; Paparone, 2019; Schön, 1984). The military’s design movement is more than just an excuse to shoot holes in the current processes and methodology; it gives the organization permission to “fail” in a way that transcends a singular focus on the organizational “function” and permits a disruption of previously unchallenged organizational “forms.” If one is building sandcastles with only one bucket to use, the entire range of possible designs is limited to what a bucket-shape of sand can do. However, when one can realize the shape of one bucket, and encourage the organization to challenge and replace one favored “bucket shape”

with others that are unfamiliar or unrealized, the new opportunities for vastly different sandcastle designs become possible. In instances of putting men and women into harm's way to achieve the nation's military objectives, the Ranger Regiment permits no room for failure; however, an organization's embrace of this international military design movement (Beaulieu-Brossard, 2020; Beaulieu-Brossard & Dufort, 2017; Jackson, 2020) demonstrates that it is willing to learn and to embrace failure to ultimately maintain its lethality and adaptability in a future that is far from linear or predictable.

Notes

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2. The Regimental staff conducted a multi-month design inquiry into this problem, ultimately determining that *"RHQ's structure is arranged in silos, resulting in an inability to effectively process information and mass on multiple complex problems that require expertise from across the staff."* The problems with changing that structure were too numerous to be considered feasible in the short-range span for options.
3. In 1943 over 2,750 "Merrill's Marauders," commanded by BG Frank D. Merrill, marched into Burma on a long-range mission behind Japanese lines with no precedent or blueprint for success. Code named "The Galahad Project," the Marauders marched for 5 months through over 750 miles of jungle terrain, successfully capturing Myitkyina, reopening the Burma Road and enabling land resupply of China. The Marauders were later rebranded the 475th Infantry, the predecessors to the 75th Ranger Regiment.
4. Martin recounts his own troubling experiences while serving in a CAG for NATO Training Mission-Afghanistan and the difficulties of bridging design to the broader staff functions. See: (Martin, 2011).
5. For instance, the U.S. Marine Corps introduced their own interpretation of Army Design Methodology in draft, unofficial doctrine while several failed attempts to force SOCOM into a "SOF Design Way" further illustrate this service-centric trend of seeking a singular and branded methodology exclusively for one service and not others.
6. For examples of JSOU's particular design educational approach, see: (Military Design 101: JSOU Enabling Innovative Thought and Action for USSOCOM – YouTube, 2020, p. 101; The JSOU JAWS Exercise and How SOCOM is Dropping Cognitive Tools with Military Design – YouTube, 2020).
7. (S. Naveh & O. Graicer, personal communication, October 15, 2019, p. 15:43) (Bureau, 2013a).
8. We use the term "solution" here sparingly, as it is frequently misinterpreted in security design. Solutions are temporary and fleeting- in complex emergent security contexts what appears to be a "solution" today can morph quickly into disastrous patterns tomorrow. Instead, referring to the work of Russell Ackoff, security designers consider problem resolutions and dissolutions in particular vice the standard mechanistic "solution inventory-problem identification-application-repetition" cycle.
9. On CAGs and SIGs applying military design, see: (Zweibelson, 2015a).
10. Regimental Standards week is series of physical assessments that Rangers must pass annually to be eligible for continued service in the organization.
11. On the metaphoric device of "pirate organizations" as well as the role of high-risk experimentation through destroying existing institutionalisms in order to create space for creative innovation, see: (Bloomfield et al., 2017; Bureau, 2013a; Durand & Vergne, 2012).
12. For more information on JSOU design courses, see their registrars and course catalog online at: https://www.socom.mil/JSOU/_layouts/15/jsou.public/pages/Courses.aspx.

13. (“High Performance Brain Training” n.d.) BPI frames its brain training programs: “Based on the brain science of neuroplasticity, we know that our brains are adaptable and trainable, driven by how we engage every day. In the same way that we can improve our bodies through physical fitness, we can increase our focus, creativity and mental efficiency with targeted strategies and healthy brain habits.”
14. The NEO-PI-3 is a standard questionnaire of the five-factor model. In addition to measuring the five major domains of personality, it provides insight into the six facets that define each domain. (Costa & McCrae, n.d.).
15. Authors paraphrasing RCO guidance issued at the time. Both RCOs reviewed this article prior to publication and confirmed the accuracy of all attributed quotes.
16. A full description of this program would exceed the scope of this article. Galahad intends to focus a future military design article on this particular Galahad design deliverable to expand this in detail.

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