Samuel Darkow

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SUMMARY

MBA candidate and engineering leader with 5+ years of industry experience leading successful teams, mentoring engineers, and driving technical innovation to deliver high quality solutions

EXPERIENCE

Scarab Tech LLC, Somerville, MA

Founder   November 2024 - Present
- Built and led a 3-person engineering team in designing and testing embedded system prototypes
- Conducted market research to define product direction and prioritize features
- Organized and facilitated weekly working sessions to drive progress and remove blockers
- Ensured alignment across engineering efforts by setting clear goals and communicating expectations

General Dynamics Electric Boat, Groton, CT

Senior Embedded System Software Engineer   August 2022 – June 2024
- Led 2 cross-functional engineering teams totaling 9 engineers to deliver complex projects on time and within budget, aligning efforts with business objectives
- Led process improvement team totaling 7 engineers to improve workflows and processes to enhance technical product quality and reduced defects by 15%
- Interviewed, evaluated, and onboarded engineering candidates ensuring technical and cultural fit
- Mentored and developed three junior engineers, fostering continuous improvement, innovation, and accountability, leading to all three earning promotions
- Managed resources, budgets of $8M+, and delivery timelines using Jira and MS Project
- Implemented risk management strategies, identifying and prioritizing critical blockers early and developing mitigation plans to prevent delays

Embedded System Software Engineer   June 2020 – August 2022
- Developed embedded software for 4 control systems, defining system and software requirements in Rational DOORS, coding in C++, and writing unit tests with VectorCAST
- Authored 3 white papers, 6 trade studies, 2 proposals, and 8 submittal letters, influencing technical decision-making and securing stakeholder buy-in

EDUCATION

University of Illinois Urbana-Champaign   Anticipated December 2025

Master of Business Administration Candidate
- GPA 3.89/4.00
- Specializations in Strategic Leadership, Innovation, and Management

University of Rhode Island   May 2020

Bachelor of Science, Electrical Engineering
- GPA 3.65/4.00, Magna Cum Laude
- Tau Beta Pi Member

SKILLS

Languages: Python, MATLAB, Simulink, C++, Rust
Technical Skills: Git, Jira, Confluence, Bitbucket, MBSE, Agile, Waterfall, Rational DOORS, Microsoft Project

HONORS AND AWARDS

- 6 Technical Excellence Awards   March 2021 – December 2023
- Eagle Scout Award   February 2016