

Samuel Darkow

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SUMMARY

Quality-driven MBA candidate and embedded software engineer passionate about leading cross-functional teams, mentoring, and driving technical innovation to deliver solutions that align with strategic business goals.

EDUCATION

University of Illinois Urbana-Champaign

Anticipated December 2025

Master of Business Administration Candidate

- GPA 3.85/4.00
- Specializations in Strategic Leadership and Management, Strategic Innovation, and Business Analytics

University of Rhode Island

May 2020

Bachelor of Science, Electrical Engineering

- GPA 3.65/4.00, Magna Cum Laude
- Tau Beta Pi Member

EXPERIENCE

General Dynamics Electric Boat, Groton, CT

Senior Embedded System Software Engineer

August 2021 – 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
- Developed and managed project roadmaps using Agile and waterfall methodologies using Jira and Microsoft Project
- Managed resources and budgets (\$8M+) while maintaining quality and delivery timelines
- Implemented risk management strategies, identifying critical blockers early and developing mitigation plans to prevent project delays
- Facilitated cross-team collaboration, working with engineering, product, and executive leadership to drive alignment and decision-making
- Presented project status, risk assessments, and trade-offs to executive leadership
- Led technical program reviews ensuring clear task prioritization project goals within teams
- Mentored and developed three engineers, fostering continuous improvement, innovation, and accountability, leading to all three earning promotions
- Championed process improvements, enhancing technical product quality and reducing defects by 15%
- Standardized project workflows, introducing automation through CI/CD, model-based design (MATLAB/Simulink), and validation processes to improve efficiency
- Maintained active security clearance

Embedded System Software Engineer

June 2020 – August 2021

- 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

SKILLS

Languages: Python, MATLAB, Simulink, C++

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