

SAMEER AUGUSTINE

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PROFESSIONAL SUMMARY

Robotics Engineering BS/MS student at Worcester Polytechnic Institute with extensive hands-on experience in robotics hardware and software development. Skilled in multiple programming languages (Python, Java, C, C++, C#) with AI certification and agile project management credentials (Certified Scrum Master, Product Owner). Former FTC Robotics Team Captain with extensive competition success. Seeking a robotics internship to apply technical knowledge and team leadership experience to innovative robotics solutions.

TECHNICAL SKILLS

Robotics: Hardware prototyping, sensor integration, control systems

Programming: Python, Java, C, C++, C#, HTML5,

Project Management: Scrum, Agile methodology, team leadership

AI & Machine Learning: TensorFlow, Generative AI, Linear Regression, Neural Networks

Tools & Software: SolidWorks, MATLAB, Microsoft 365 Suite, Git version control

WORK EXPERIENCE

Internship, SOPTICS AI: *May 2025 – Present*

- Reviewed machine learning models – (Linear regression, K-means clustering)
- Gained experience from CTO and Program Manager on various machine learning and python programs

Summer Camp Counselor, Building Momentum: *Summer 2023 & 2024*

- Designed and delivered hands-on curriculum teaching electronics, robotics, and welding to teens
- Guided students through building microcontroller-based robotic systems and electronic projects
- Troubleshoot hardware and software issues for multiple student projects simultaneously

EDUCATION & RELEVANT COURSEWORK

Worcester Polytechnic Institute, Worcester, MA

BS/MS in Robotics Engineering, Expected Graduation: May 2027

Relevant Coursework:

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|---|---|
| • Introduction to Robotics Engineering | • Machine Learning |
| • Unified Robotics I-III | • Software Engineering |
| • Introduction to Electrical & Computer Engineering | • Calculus I-IV |
| • Embedded Computing in Engineering Design | • Global Environment of Business Decision |

St. Stephens & St. Agnes School, Alexandria, VA

High School Diploma, Attended: 2008-2021

High School classes in Programming, Robotics, Algebra, Geometry, Trigonometry, AP Calculus AB, English, History, Latin, Chemistry and Physics C. Awarded Dean's List for 6 years.

PROJECT EXPERIENCE

Perceptions and Impacts of the Venice Entry Fee: *March 2024 – June 2024*

Venice Project Center, Project Team Member

- Conducted field research on tourism management technology implementation in Venice
- Gathered quantitative and qualitative data through tourist surveys and interviews
- Produced project video including voice-over narration and co-authored detailed findings report
- Presented research findings at the Venice Project Center

Mass General Brigham Hospital Application – Full Stack Development: *January 2024 – March 2024*

Scrum Master & Frontend Developer

- Led team using Scrum methodology to develop map kiosk application with pathfinding capabilities
- Implemented frontend components for service request design and statistics visualization
- Facilitated sprint planning and daily scrum meetings for team of 11 developers
- Applied agile principles to ensure on-time delivery of functional application

COMPETITIVE ROBOTICS EXPERIENCE

FTC Robotics Team – Thunderstone 6010 & Iron Giants Robotics 10442 *September 2017 – May 2021*

St. Stephen's & St. Agnes School, Co-Captain, Captain, Coach, Engineer and Driver

- Led team to win State Innovate Award (2018, 2019) and achieved Finalist Alliance Captain status (2020)
- Qualified for the 2020 FTC World Championship
- Engineered robot hardware systems including custom gripper mechanisms and drive systems
- Designed and implemented custom motor controllers and sensor arrays
- Mentored junior team members on robotics fundamentals and programming techniques
- Directed team strategy, design decisions, and competition preparation

CERTIFICATIONS & HONORS

AI-Assisted Agile Development: July 2024

Generative AI for Everyone: July 2024

Generative AI for Project Managers: Dec 2023

Certified Product Owner: June 2018

Certified Scrum Master: June 2018

ADDITIONAL ACTIVITIES

- Executive Board/Event Manager for WPI Esports Club
- KGM (WPI Kpop Dance Club)
- NASA Robotics Space Camp participant
- Volunteer Experience – FACETS, ALIVE!, Catholic Charities, Lamb Center and ACCA