

Erik Bøsen

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Education

YALE UNIVERSITY, Combined BS/MS 4-year accelerated degree in Computer Science. New Haven, CT
GEORGE MASON HIGH SCHOOL, Graduated with IB Diploma as Valedictorian. Falls Church, VA
VIRGINIA RESIDENTIAL GOVERNOR'S SCHOOL FOR MATH, SCIENCE, & TECHNOLOGY. Lynchburg, VA

Experience

SCHOOLLOGIX // *Software Engineering Intern*

- Hired as youngest ever intern after creating Chrome extension to enhance website and add features - Overhauled graphical interface - Revamped dependency management for enhanced security - Created new features for standards-based grading and student mastery assessment
- MIT MARINE AUTONOMY LAB // *Research Intern*
- Executed aquatic human-robot interaction experiments using voice-controlled semiautonomous aquatic robots
- Created datasets for DARPA, Battelle, and other lab sponsors
- Built emotion tracking and autonomous driving software with C++/Python
- Programmed camera management system to MOOS-IvP autonomy framework
- Completed graduate-level MIT 2.680 coursework during internship.

FIRST TEAM 5418 // *President 2018-2019, Programming Captain 2017-2019, UI Director 2016-2017* // Wrote multilingual code for robot control in large student organization. Created platforms for sophisticated data analysis, and led team to establish inclusive leadership structure and outreach programs.

MASON HACKS // *Founder & Director* // Started GMHS' first "hackathon" programming competition. Raised over \$2,500 each year in corporate sponsorship.

CYBERPATRIOT // *Captain, Team 10-1018 & Team 11-1091* // Competed in national cybersecurity championship. Directed school's program and taught programming lessons to other competitors.

VIRGINIA GENERAL ASSEMBLY // Worked as a short-term intern in Delegate Kathy Tran's office. Performed preliminary research, helped in drafting, and testified in support of HB1111, which proposed a STEM Education Fund for supporting technology education programs at underserved high schools.

HACK CLUB // *Founder & President* // Created GMHS chapter of Hack Club for students to work on and get help with personal programming projects.

GMHS STUDENT ADVISORY BOARD // *Co-founder & Technical Representative* // Helped organize then was elected to GMHS administrative advisory group. Advocated for reasonable and secure tech infrastructure security policy.

VEKTRE LABS // *CEO* // Designed modern websites for local corporations and nonprofits including English Now!, Tinner Hill Heritage Foundation, Welcoming Falls Church, Falls Church Villiage Preservation and Improvement Society, and others.

THE ACADEMYST // *Founder & Editor* // After publishing articles in school newspaper, founded independent journal for high school students to fill media void of youth voices.

AWARDS

FIRST DEAN'S LIST // I was selected as one of ten students from 92,000 eligible to receive the highest student award in FIRST Robotics Competition.

US CONGRESSIONAL APP CHALLENGE WINNER // Winner of US Congress challenge for creation of [Opinr](#), a web application exposing users to opposing political ideology paired with a social network for open discussion.

FIRST INNOVATION IN CONTROL AWARD // Won for creation of open-source [FRC Dashboard](#) platform, now used by over 100 robotics teams for advanced, customizable robot control.

GMHS OUTSTANDING COMPUTER SCIENTIST AWARD // Recognized as the top student in Mason's computer science department.

SKILLS

Python, HTML/CSS/JS, C/C++, Java, Ruby, UNIX, L^AT_EX, PHP
Go, Perl, Lisp, Batch