Erik Bøsen

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Education

2015-2019	GEORGE MASON HIGH SCHOOL, IB Diploma Candidate, Falls Church, VA
2017	VIRGINIA RESIDENTIAL GOVERNOR'S SCHOOL FOR MATH, SCIENCE, & TECHNOLOGY, Lynchburg, VA

Experience

2018-2019	MIT MARINE AUTONOMY LAB // *Research Intern* // Helped run aquatic human-robot interaction experiments using voice-controlled semiautonomous USVs. Used C++/Python to develop emotion tracking and autonomous driving software and contribute to MOOS-IvP autonomy framework.
2015-2019	FIRST TEAM 1418 // *President 2018-, Programming Captain 2017-, 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.
2016-2019	CYBERPATRIOT // *Captain, Team 10-1018 & Team 11-1091* // Competed in national cybersecurity championship and directed school's program.
2017-2019	MASONHACKS // *Founder & Director* // Started GMHS' first "hackathon" programming competition. Raised over $2,500 each year in corporate sponsorship.
2018-2019	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.
2016-2019	HACK CLUB // *Founder & President* // Created GMHS chapter of Hack Club for students to work on and get help with personal programming projects.
2018-2019	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.
2016-	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.
2017-2019	THE ACADEMIST // *Founder & Editor* // After publishing articles in school newspaper, founded independent journal for high school students to fill media void of youth voices.

Awards

2018	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.
2017	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.
2016-2018	FIRST INNOVATION IN CONTROL AWARD // Won for created of open-source FRC Dashboard platform, now used by over 100 robotics teams for advanced, customizable robot control.
2018	Recipient of George Mason High School Outstanding Computer Scientist award, awarded to GMHS' top Computer Science student

Skills

Proficient	Python, HTML/CSS/JS, C/C++, Java, Ruby, UNIX, TeX
Familiar	Go, Perl, Lisp, Batch