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 MOOS-IvP framework and voice-controlled semiautonomous USVs. Used C++/Python to develop emotion tracking and autonomous driving software.

2015-2019   FIRST TEAM 1418 // *President 2018-, Programming Captain 2017-, UI Director 2016-2017* // Wrote code in many languages for autonomous operation and driver control in fast-paced student robotics organization. Created platforms for sophisticated data analysis. Led team to establish inclusivity programs and write first handbook.

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.

2016-2019   Created FRC Dashboard and derived driving dashboard, which has won FIRST Robotics Innovation in Control Award five times

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