

JAKOB STICKLES

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SUMMARY

A computer engineering graduate with experience designing robotics control systems. Has relevant education in computer architecture and system programming. Interested in most software work, primarily related to firmware engineering or digital design.

EDUCATION

University of Washington (Seattle, WA)

June 2024

- ❖ Bachelor of Science In Computer Engineering
- ❖ UW Washington State Academic RedShirt (STARS) Program Alum

EXPERIENCE

Junior Software Administrative Engineer, TPR Education, LLC (Remote) June 2022 - Present

- ❖ Working with a team to enhance Tutor.com's services.
- ❖ Using full-stack technologies to improve site accessibility and implement new features.

Lead Programmer, FIRST Robotics Team (Arlington, WA)

September 2016 - June 2020

- ❖ Developed Java robot code and maintained system electronics.
- ❖ Explored and implemented various computer vision technologies such as GRIP, AI Object Detection, and SLAM, helping the team to win its first Autonomous Award in 2019.
- ❖ Delegated tasks to a small team of programmers and provided Java training for new members.

TECHNICAL QUALIFICATIONS

Languages (Proficient): Java, C#, C/C++, SystemVerilog, HTML, Javascript, Python, SQL

Tools: Visual Studio, Git, Bash, Linux, GDB, Arduino

PROJECTS

Remote Control Lawnmower

January 2022

- ❖ Designed a four wheel drivetrain for an electric push mower and implemented radio controls.

C++ Application—Lego EV3 Video Player

October 2021

- ❖ Developed a monochrome video player for the Lego EV3 with standard playback features.
- ❖ Developed a video encoder using ffmpeg that converts various video formats into one supported by the video player (compatible with arm/x86 platforms).

ACTIVITIES & LEADERSHIP

Mentor, High School Robotics Team (Anacortes, WA)

August 2024 - Present

- ❖ Assisting students with FTC Java programming and general robot troubleshooting.

President, FIRST Robotics Team (Arlington, WA)

June 2019 - June 2020

- ❖ Lead meetings for a ~30 person team, managed communications between officers and mentors, and partook in various community outreach activities.

Team Captain, AFA CyberPatriot Team (Arlington, WA)

September 2017 - June 2020

- ❖ Explored methods of securing cybersecurity vulnerabilities within virtual operating systems.