

JAKOB STICKLES

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SUMMARY

I'm a computer engineering graduate with experience designing robot control systems. I have relevant education in computer architecture and embedded/system programming. Looking for a full-time software job, 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.
- ❖ Made changes to significantly shorten build times for dev environments.
- ❖ Using full-stack web 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.