

Samuel Villegas

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EDUCATION

Oregon State University <i>Bachelor of Science in Computer Science</i>	Jan 2019 - Current <i>Expected June 2021</i>
Chemeketa Community College <i>Associate's of Science Oregon Transfer in Computer Science</i>	Sept 2017 - Dec 2019 <i>Expected March 2021</i>

EXPERIENCE

Avionics System Developer <i>Oregon State University AIAA High Altitude Rocket Team (HART)</i> <ul style="list-style-type: none">Working alongside other software, electrical, chemical, and mechanical engineering students to develop an avionics system for the HART multi-stage solid propellant rocket with the goal of launching the rocket to a height of 150,000 feet AGL.	Oct 2020 – Current <i>Corvallis, OR</i>
Software Engineer Intern <i>ON Semiconductor</i> <ul style="list-style-type: none">Collaborated remotely using Agile & Scrum as part of the Solutions Engineering Center software teamRedesigned Strata Web Interface using Material UI componentsRefactored website code to follow a commonly used React/Redux design patternSplit the website's code bundle into dynamically-loaded, gzip-compressed chunks using WebpackConfigured Express server to serve static gzipped files	June – Sept 2020 <i>Beaverton, OR</i>
Builder, Lead Programmer, Robot Operator <i>FIRST Tech Challenge Team #5198</i> <ul style="list-style-type: none">Assisted in robot design & assemblyProgrammed & tested different operational modes for controlling robotPorted RobotC code to JavaTaught incoming students programming	Sept 2013 – Feb 2016 <i>Salem, OR</i>

TECHNICAL SKILLS

Languages: C, C++, Python, Bash, Verilog, AVR Assembly, Java, Javascript, TypeScript, HTML, CSS, SCSS, JSS, JSON, YAML, SQL, Haskell, Markdown, LaTeX

Operating Systems: Linux(Ubuntu, CentOS, Debian, Alpine, TinyCore), Windows, MacOS

Buildtools: GNU Compiler Collection, make, Webpack, Babel

Testing & Debugging: GDB, Valgrind, Dr. Memory, Catch2, Test Driven Development

Source Control: Git, Mercurial, GitHub, Bitbucket, Github Desktop, SourceTree, HgTortoise

Productivity Software: GitHub project management tools, Microsoft Teams, Jira, Confluence, Slack

CI/CD: Jenkins, GitHub Actions, Travis CI, Circle CI

Virtualization/Containerization: Docker, Vagrant, VirtualBox

Productivity Software: Jira, Confluence

Frameworks & Libraries: Busybox, Toybox, libusb, Matplotlib, Svelte, React, Redux, Redux-Thunk, React-Router, Chart.js, Express, Express Handlebars, Material-UI, D3, Remarkable.js, ACE-Editor

Other: SSH, Arduino, PM2, Computer Aided Design, 3D printing, A/V & digital media production