

Viresh Duvvuri

19928 bothell everett hwy, Bothell, WA, 98012 • vireshduvvuri@gmail.com • +1-509-964-5469

[linkedin.com/in/viresh-duvvuri/](https://www.linkedin.com/in/viresh-duvvuri/)

Education

2015 – 2017 Pullman, WA, USA	Washington State University , <i>Master of Science, Computer Science</i> <ul style="list-style-type: none">Thesis Title: "Development of Baton: A Novel Precision Delivery Drone"Advisor: Dr. Matthew E. Taylor, Assistant Professor, Department of Electrical Engineering & Computer Science
2011 – 2015 Visakhapatnam, India	GITAM University , <i>Bachelor Of Technology, Information Technology</i>

Skills

Programming <i>Python, C++, React, Docker, Git, SQL, Android, OOP, Multithreading</i>	Embedded Framework <i>RTOS, I2C, UART, SPI, CAN, STM32</i>
Code Base & Framework <i>PX4, Arudpilot, mavlink, mavsdk, pymavlink, wireshark, UAVCAN</i>	OS & Version Control <i>Linux (bash scripting), Windows(bat files), Git, Testrails, Notion</i>

Work Experience

11/2021 – present Woodinville, WA, USA	Freely Systems , <i>Drone Systems Engineer</i> <ul style="list-style-type: none">Led cross-team projects from requirements gathering through deployment and coordinated with internal teams to maintain project visibilityBuilt diagnostic tools and tracking systems including log reviewers and issue trackers to resolve technical problems and ensure optimal drone performanceDeveloped core drone software components optimizing flight control systems and enhancing payload integration capabilitiesStreamlined production processes and automated support workflows to improve response times and team productivityLed technical support operations for the drone division, analyzing drone crashes and working with cross-functional teams to identify root causes and troubleshoot systems for manufacturing teams and customers
07/2020 – 10/2022 Sarasota, FL, USA	Lumenier , <i>Software Engineer</i> <ul style="list-style-type: none">Developed and customized flight modes in PX4 for features like Toss to Launch and integrated custom sensors using protocols such as MAVLink and UAVCAN.Led the software development process: planned release cycles, coordinated efforts with the maintainer of the PX4 codebase to optimize GPS, GPS-denied position-hold, and obstacle avoidance across different lighting conditions.Designed and executed robust test procedures to validate firmware with each release. Analyzed logs to determine root causes for critical bugs and scoped fixes for the next release cycle.
08/2018 – 03/2020 York, PA, USA	York Exponential , <i>Robotics Research & Development Engineer, Computer Science</i> <ul style="list-style-type: none">Developed a prototype software for in-house autonomous surveillance mobile robots. Implemented vision & autonomous navigation algorithmsDeveloped Human Machine Interface to program a collaborative robotic arm - Universal Robot for welding applicationImplemented features for a Multi-Robot Control System, focusing on platform independence and system reliability