

# Michael Bonnet

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## EDUCATION

### University of Texas at Arlington

*BS in Computer Science, Certificate in Unmanned Vehicle Systems*

**Arlington, TX**

*Graduation: May 2022*

## SKILLS & TECHNOLOGIES

- **Programming Languages:** C, C++, Python, MATLAB, Java, HTML/CSS, SQL
- **Software & Processes:** Machine Learning, Deep Learning, TensorFlow, OpenCV, Keras, scikit-learn, MATLAB, Simulink, Robot Operating System (ROS) Git, Bash/CLI, Vim, Linux/Unix, macOS, Amazon Web Services (AWS), Agile Development, Internet of Things (IOT)
- **Hardware:** Robotics, Commercial & Self-Built Drones, Autonomous Vehicles, Flight Controllers (Pixhawk), Raspberry Pi, Arduino/Microcontrollers, Software Defined Radio (including RTL-SDR and LimeSDR)

## EXPERIENCE

### Lockheed Martin

*Software Engineer Intern, Missiles and Fire Control*

**Grand Prairie, TX**

*October 2021 - Present*

- Deployed, integrated, and maintained Jira issue tracking software for Missiles and Fire Control division
- Improved digital principles and practices in support of IoT initiatives and production manufacturing
- Integrated and deployed development solutions with Amazon Web Services (AWS) Cloud

### Lockheed Martin

*Software Engineer Intern, Enterprise Operations (EO)*

**Fort Worth, TX**

*May 2021 - October 2021*

- Researched DevOps tools like Ansible and Jenkins CI for potential use by EO and other teams; research report lead to changes in development workflow and 10+ hours of labor saved per month
- Developed practices and documentation for properly using Git version control within an Agile (Scrum) development cycle, earning opportunity to continue working past the summer internship
- Developed data integration software using Java and Java-based tools

### MineralWare

*Web Development Team Intern*

**Fort Worth, TX**

*Jan 2020 – May 2020*

- Overhauled all styles for the entire MineralWare application throughout Agile (Scrum) internship
- Redesigned the client-facing Tract Management page
- Implemented a system to automatically update static resources in the MineralWare webapp upon new releases, solving a common client UI issue

## PROJECTS

### Network Exploitation Drone

*Drones, RF Engineering, Penetration Testing, Networks*

- Senior capstone project to build a drone that carries a sensor and networking payload that locates and identifies open Wireless Access Points before scanning the network and exploiting any vulnerabilities.
- Served as Team Leader on a six-student team that earned sponsorship from Elbit Systems of America

### Autonomous LEGO EV3 Robots

*Robotics, Python, Intelligent Systems*

- Robot 1, "Solomon", solved a painter's tape-demarcated maze with known configuration, starting point, and goal point using A\* search with a Manhattan distance heuristic
- Robot 2, "Rehoboam", using color and ultrasonic sensors, solved a similar maze with unknown initial position, with the goal of finding an object in the maze and pushing it out of position

### Machine Learning Projects

*Python, Numpy, Pandas, Intelligent Systems*

- Various projects for undergrad Machine Learning course, including naive Bayes, linear regression, neural networks, and reinforcement learning, primarily using Python, Numpy, and TensorFlow