**Dario Ugalde**

**Personal Details Education**

*Phone* (682) 407-3078 **Bachelor’s of Science in Computer Engineering**

*Email*  [dario.ugalde@outlook.com](mailto:dario.ugalde@outlook.com) *University of Texas at Arlington* *LinkedIn* [www.linkedin.com/in/dario-ugalde](http://www.linkedin.com/in/dario-ugalde) GPA: 2.94

*Github*  [*https://github.com/ugaldedr/*](https://github.com/ugaldedr/) Extracurricular:

Alpha Tau Omega Fraternity

**Work Experience** Secretary – 2016

**Software Engineering Associate** 2019 – present Vice President - 2017

*Lockheed Martin Missiles and Fire Control, Full-time* IEEE

Software developer responsible for unit and integration ACM

testing, supporting production deployment, and creating

required documentation with a focus on embedded **Skills**

systems and low-level device communications. *Operating Systems:*

Windows, Linux, MacOs

**Administrative Assistant**  2015 - 2019 *Software:*

*University of Texas at Arlington, Part-time*  Git, Eagle, Code Composer Studio, Docker

Interned under IT professionals to develop fundamental skills *Embedded Systems:*

in areas including: project management, operational security, ARM Cortex M4, PIC18F, dsPIC30F Raspberry Pi

and IT infrastructure.  *Languages:*

Experienced: C/C++, python

Competent: Java

Familiar: Matlab, Assembly

**Projects**

**Matador Risk Reduction(Lockheed)**

* Developed a C++ wrapper for the existing message scheme to the High-Power Microwave Control System
* Responsible for the integration and support of ROS nodes for a variety of hardware components
* Worked in a close-knit team using an agile methodology

**High-Power Microwave Control System (Lockheed)**

* Developed and integrated software features into an existing code base
* Responsible for the implementation of safety features such as watchdog timers and error handling
* Revamped code base to include clear, useful comments and meaningful varaibles

**IGVC Autonomous Robot Competition (UTA Fall 2018 – Spring 2019)**

* Developed an autonomous robot capable of navigating an obstacle course for Senior Design project
* Worked with a small team in an agile development cycle
* Implemented machine learning techniques such as computer vision and path planning/navigation

**Alarm Sensor System (UTA Spring 2018)**

* Developed a sensor interface system using PIC18F4520 microcontroller for Embedded Systems I final project
* Implemented embedded design concepts of ADC/DAC, timers, interrupts, and UART
* Created software interface for sensor readings and settings adjustment with C

**Other**

**Certifications:**

* LFD435: Developing Embedded Linux Device Drivers
* LFD450: Embedded Linux Development