

DARREN MASCIOLI

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Summary Emerging professional with experience in embedded software development and debugging for real world applications. Interested in post-graduate employment opportunities.

Education **University of Pittsburgh – B.S. in Computer Engineering** *Pittsburgh, PA*

Minor in Political Science

GPA: 3.804

Exp. Graduation:

December 2020

Relevant Coursework:

Computer Networks, Practical AI, Software Engineering, Embedded Processors and Interfacing, Databases, Data Science, Algorithms, Operating Systems, Software Quality Assurance, Digital Design, Computer Architecture, Data Structures, Web Applications, Digital Logic, Computer Organization, Electronic Circuits, Digital Systems Lab, Written Professional Communications

Skills

Languages:

C, C++, Python, Java, C#,
HTML/CSS, JavaScript,
SQL (Oracle, Microsoft)

Tools:

Visual Studio, Eclipse, Git, SVN,
Jira, JUnit, Selenium, SQL
Server, MySQL, Flask,
HDL Designer, ModelSim

Operating Systems:

Windows (10, 7),
Linux (Ubuntu, Debian),
Embedded Round Robin,
RTOS/ThreadX

Hardware:

Soldering, Oscilloscope,
DMM, UART, BLE, I2C, SPI,
1-Wire, Modbus, Ethernet,
Schematic design

Experience

Bridge Fusion Systems

Software Engineering Co-Op

- Added ethernet connectivity to track switch platform (C, ARM-STM32)
- Introduced and developed new data storage platform with SQL Server for manufacturing production database. (SQL)
- Added new firmware feature to power dissipation devices to automatically prevent diesel generator wet stacking. (C, ARM – NXP)
- Implemented firmware features for streetcar track switch equipment including adding support for new SPI flash memory component. (C, ARM – STM32)
- Created additional software feature to update firmware version of multiple IoT devices at one. (C#)
- Expanded functionality of and created multiple WPF GUI applications. (C#)
- Performed multiple product demonstrations to clients to ensure correct implementation of requirements.

Plum, PA

May 2018 – July 2020

3-rotation co-op,
Internship

Projects

BikerBlinker

Senior Design Project

- Ongoing capstone project to develop voice-activated turn signals for bicycles
- Responsible for circuit design and embedded firmware on ESP-32 module (C++)

August 2020 - Present

2020 NAESC Engineering Leadership Summit

Conference Director

- Organized two-day national conference for almost 300 attendees
- Managed budget of approximately \$80,000 and communicated purpose of conference and national organization to secure ~\$10,000 worth of corporate sponsorship deals
- Facilitated virtual conference activities after cancellation of event due to COVID-19

Pittsburgh, PA

April 2019 - March 2020

Leadership

Engineering Student Council

Conference Director, Vice President, Board Member

- Conference director for NAESC Engineering Leadership Summit, a national conference for over 300 student leaders hosted at Pitt.
- Work with other officers to promote academic, professional, and social development within Pitt Engineering.
- Attend regional and national conferences to develop and expand leadership and communication skills.

Fall 2017 – Fall 2020

Achievements

University of Pittsburgh Dean's List

Tau Beta Pi Engineering Honor Society – Vice President

Multiple Semesters

April 2019 – May 2020