

# Daniel J. Snyder

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## Skills/Competencies

**Languages:** Java, Python, C++, C, SQL, MySQL, PostgreSQL, MATLAB, HTML, CSS, Verilog, LabVIEW, Assembly

**Software:** GitHub, GitLab, VSTS, IntelliJ, Active Directory, Android Studio, Slack, Microsoft Office Suite, Eagle, AutoCAD, Xilinx, UNIX, Linux, Windows Server, Ubuntu, CentOS

**Microcontrollers:** ARM, AVR, Arduino UNO, Raspberry Pi, FPGA, M68HC11E, 6LoWPAN, PCB Board Design

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## Education

**THE UNIVERSITY OF GEORGIA, College of Engineering**

**Athens, GA**

**Bachelor of Science Computer Systems Engineering**

*Exp. May 2018*

- Concentration: Embedded Systems Engineering      Cumulative GPA: 3.62      Major GPA: 3.89
  - Relevant Coursework: Database Management Systems, Data Structures, Design of Digital Systems, Wireless Sensor Networks, Sensors and Transducers, Engineering Informatics, Numerical Simulations, Embedded Systems
  - Honors: Zell B. Miller Scholarship, Center for Undergraduate Research Opportunities Research Assistantship
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## Project Experience

### Sensorweb Micromouse Maze

**January 2017 to May 2017**

*Completed a group based sensorweb project to navigate four separate microrobots through a maze.*

- Developed wireless communication for four mice to update a Graphical User Interface (GUI) single receiver in real time.

### IEEE SoutheastCon 2017 Hardware Competition

**August 2016 to April 2017**

*Responsible for having an autonomous robot detect an external electromagnetic field and strike a post while the electromagnetic field is present.*

- Applied knowledge of Arduino UNO and C programming language to make an electromagnetic antenna.
  - Executed an embedded systems approach to activate a servomotor when electromagnetic readings reached a certain threshold.
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## Job Experience

### Automated Software Teaching Intern

**Equifax, The University of Georgia**

**August 2017 to Present**

*Collaborate with a small team to implement a program for software discovery on all technical assets.*

- Create a database and create an application to use various cross-referencing teaching techniques to determine the software titles on a computer based on the files discovered on the computer hard drive.

### Undergraduate IoT Research Assistant

**The University of Georgia, Southern Company**

**August 2017 to Present**

*Develop a wireless sensor network that can operate and be maintained within the harsh environment inside a power plant to provide accurate, real-time information.*

- Integrate a gateway operating at 5, 2.4, and sub-gigahertz channels to a sensor network of over thirty multiple purpose sensors that monitor heavy machinery.
- Create a local Internet of Things solution to display real-time data for each sensor in one central hub.

### Hardware Engineering Independent Contractor

**December 2017 to January 2018**

**Trellis Incorporated**

*Designed and developed an automated bootloader rig to flash a main application and test all hardware components of a wireless sensor network.*

- Implemented a python script to flash all applications and configurations through serial to the mote and gateway devices.
- Designed a PCB pogo jig to automate and maximize efficiency for the configuration process of the mote and gateway devices.

### Information Technology Intern

**Primrose School Franchising Company**

**June 2017 to August 2017**

*Monitored and maintained network infrastructure and technical assets using Windows Server Utilities.*

- Managed corporate accounts, computers, and permissions through Active Directory with ADSync.
- Created and edited documentation related to creating and maintaining technical assets.

***References Available Upon Request***