

# Leah M. Denham

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## Education

### Georgia Institute of Technology

*Bachelor of Science in Computer Science*

**Atlanta, GA**

*2011–2014*

- 2012 Grace Hopper Women in Computing Scholarship Recipient

### Appalachian State University

*Computer Science*

**Boone, NC**

*2010–2011*

## Work Experience

### Polytron, Inc.

*Design Engineer*

**Duluth, GA**

*October 2014–May 2016*

- Paper Production Facility: Redesigned merge logic for efficiency and error reduction, maintained and improved current DCS, provided on site/on call support and maintenance, conducted data gathering used to monitor and improve product throughput, Reprogrammed palletizers to eliminate palletizing errors, provided on call site reliability engineering to maximize up time
- Chemical Solutions Company: Performed control panel audit and catalog of all IO for recommending system upgrades
- Large Municipal Government: Recommended systems based on an analysis of price, security, and reliability
- Ink Production Facility: Performed control panel audit and catalog of all IO for recommending system upgrades
- Wood Chip Conversion Biofuel Plant: Provided on site start up support
- Wood Preserve Production Plant: Performed control panel audit and catalog of all IO for recommending system upgrades
- In-House Efforts: Researched and created a sample program in Ignition (Inductive Automation's Integrated Software Platform for SCADA systems) for a Bedrock PLC

### Georgia Institute of Technology College of Computing

*Student Assistant*

**Atlanta, GA**

*May 2013–August 2013*

- Managed Social Media Accounts and Statistical Reports
- Developed OMSCS Program Website and Correspondence Management

### Georgia Tech School of ECE

*Teaching Assistant, Digital Design Lab*

**Atlanta, GA**

*2012–2013*

- Debugged and verified circuit and VHDL labs while answering student questions

## Skills

**Technologies:** Proficient with IEC 61131-3 standard languages, PLC programming, industrial HMI programming and design, SCADA, ICS design, Java; some exposure to HTML, CSS, Javascript, Python, C,  $\text{\LaTeX}$ , XML, VHDL

**Skills:** FPGA programming, hardware performance analysis, logic analyzers, oscilloscopes, soldering, embedded programming

**Applications:** Android Studio, Eclipse, TeXworks, Vim, Notepad++, RSLogix 5000, FactoryTalk View, git, SVN, Adobe Photoshop, Adobe Illustrator, Altera Quartus II

**Operating Systems:** Microsoft Windows, Ubuntu, Arch Linux

## Research Experience

### Georgia Institute of Technology Robotics and Intelligent Machines Center

*Undergraduate Research, Advisor: Mike Stilman*

**Atlanta, GA**

*August 2013–May 2014*

- Developed and Designed Holonomic Dynamically Balancing Robot
- Team Development of DART and GRIP Software: Simulated Robotics Testing