Leah M. Denham

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Education

Georgia Institute of Technology **Atlanta, GA**
Bachelor of Science in Computer Science *2011–2014*
- 2012 Grace Hopper Women in Computing Scholarship Recipient

Appalachian State University **Boone, NC**
Computer Science *2010–2011*

Work Experience

Polytron, Inc. **Duluth, GA**
Design Engineer *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 **Atlanta, GA**
Student Assistant *May 2013–August 2013*

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

Georgia Tech School of ECE **Atlanta, GA**
Teaching Assistant, Digital Design Lab *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, 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 **Atlanta, GA**
Undergraduate Research, Advisor: Mike Stilman *August 2013–May 2014*

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