

Andrew L. Martin
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Objective: To secure a challenging technical engineering position.

Education: **University of Illinois, Urbana Champaign, IL**
B.S., Electrical Engineering, minor in Materials Engineering, Obtained Dec 2015

Relevant Courses:

Electronic Circuits	Power Electronics	Thermodynamics
Analog Signal Processing	Semiconductor Electronics	Fields and Waves
Differential Equations	Engineering Statistics	Quantum Mechanics

Experience: **Dematic - Austin, TX** **Nov 2017 - Present**
Controls Engineer I

Architecture of PLC controls cabinetry and HMIs. Responsible for onsite deployment and testing.
Design and implementation of code on Rockwell PLCs used to control conveyor systems.
Trained Qualified Electrical Worker (QEW), certification pending.

Dematic Reddwerks - Austin, TX **Jan 2016 - Nov 2017**
QA Engineer I

Designed and executed test cases for Java based Warehouse Execution Software (WES).
Trained end-users onsite at distribution centers in the operation of Reddwerks software and hardware.
Fully documented over 80 code changes across 20 remote/onsite deployments.
Statistically analyzed pseudorandom number generator for Reddwerks LC firmware. Demonstrated need for companion firmware updates for a new hardware design. Suggested changes were implemented by R&D.

Zhejiang University **Summer 2015**

Research Assistant - Study Abroad Program
Studied the effect of humidity on electrical properties of fluorinated graphene/silicon schottky junctions.
Collected data and wrote statistical analysis of experiment results.

Phoenix **Summer 2014**

Systems Engineering Intern
Built a pathway for sending data from a remote underwater vehicle to an on-ship MFHR radar system.
Wrote Matlab programs to encode and interpret eval-board data.

Skills: Linux, Python, C programming CAD/SolidWorks
Atlassian (Jira/Confluence), MySQL, MSSQL, Matlab, HDL Designer, RSLogix
Extensive experience breadboarding, soldering, and troubleshooting circuits
Excellent communication and presentation skills, Chinese language skills

Activities: *Hobbyist work on Arduino/ATTiny/Reddwerks hardware*
-Designed low cost hobbyist project featured in online article for Popular Science

Instructor/Organizer at Austin Arduino and MicroController Meetup
-Taught introductory classes for programming in Arduino.

IEEE workshops committee liaison to Makerspace Urbana
-Spearheaded a successful Arduino workshop for UIUC students in collaboration with Makerspace Urbana