

Andrew L. Martin
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Apt 2022
Austin, TX 78748

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

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

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.
Personally requested by customer to investigate P1 support issue; documented and delivered three fixes in one week.
Trained Qualified Electrical Worker (QEW).

QA Engineer **Jan 2016- Nov 2017**

Dematic Reddwerks - Austin, TX
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.

3Phoenix **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, MySQL, MSSQL, Matlab, Atlassian (Jira/Confluence), SAP, Salesforce, Inductive SCADA, RSLogix
Extensive experience designing, soldering, and troubleshooting circuits
Excellent communication and presentation skills, Chinese language skills

Activities: *Consulting engineering work for Micro Generators Incorporated*
-Pro-bono design of 3-phase PWM following circuit for startup.

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

Instructor/Advisor 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.