

John Curci

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Summary

Graduate student pursuing an MS in Electrical Engineering at Boston University, with strong programming and problem solving skills. Seeking internship for the summer of 2018.

Education

Boston University

M.S Electrical Engineering

Boston, MA

Expected December 2018

University of Massachusetts

B.S. Electrical Engineering, GPA: 3.47

Amherst, MA

September 2013 – January 2017

Hampshire College

Chemistry Major

Amherst, MA

September 2011 – May 2013

Relevant Work Experience

PINAC Solutions

Providence, RI

Engineering Intern

April 2017 – August 2017

After completing my B.S., I interned for a small automation startup working to implement a multi-purpose solution for a plastics manufacturer.

- Programmed the flaw detection procedure for a Keyence camera system, achieving a 97% detection rate for flaws as small as 0.004" in diameter
- Implemented a highly accurate correction procedure for measuring flaws on a curved surface
- Wrote code for a Beckhoff PLC using the TwinCAT 3 environment to interface with and control various machine subsystems
- Working independently or with a supervisor, brought a number of subsystems online, including several robotic actuators and an automated bagging system

FastCAP Systems

Boston, MA

Engineering Intern (term 2)

May 2014 – August 2015

During my second term at FastCAP, I was assigned to find a problem with some company process or a gap in institutional knowledge.

- Conducted testing on MEMS (micro-electro-mechanical systems) sensing elements to determine their long-term output repeatability under high temperature conditions
- Examined changes in various properties under temperature cycling and impact shock
- Presented a report conveying my data and interpreting my results to Director of Engineering

Engineering Intern (term 1)

August 2014 – January 2015

During my first term at FastCAP, I was given significant responsibility for their testing process.

- Built and operated test equipment for new product qualifications
- Performed exploratory qualifications of electronic components
- Wrote utility scripts to streamline operations and communicate with lab equipment

Relevant Skills and Coursework

- Programming in Python, C++, Java, Beckhoff PLC code, and VBA
- Software: Matlab, Keyence Vision Software, TwinCAT 3, PCB Artist, SPICE
- Electronics: PCB assembly and troubleshooting, soldering
- Mechanical: power tools, lathe, CNC mill, woodworking tools, etc.

Other Experience

Senior Design Project - Canopy IoT Shade System

Designed and fabricated an Internet of Things enabled shade system which works to improve the heating and cooling efficiency of a house by controlling the amount of light entering a window.

Photodiode Color Sensor

Built a sensor that would judge the wavelength composition of incident light on an RGB scale as the final project in an Electronics class. My project was evaluated as best in class.

Family Sculpture/Restoration Business

Assisted in fabrication, installation and restoration of large mechanized sculptures powered by wind and solar energy, including electronics assembly and operating a range of fabrication tools and machinery.