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RELEVANT EXPERIENCE

Nanotronics – Brooklyn, NY   April 2019 – Present
Research and Development Engineering Lead (Electrical)
- Developed electronics to increase the throughput of our wafer inspection tools by 10x while maintaining compatibility with our existing software suite.

Electronics Engineering Lead (Hollister, CA)   August 2015 – April 2019
- Led a multi-disciplinary team of engineers to create a generalized inspection tool for semiconductor manufacturing, enabling customers to inspect their wafer masks and wafers with a single tool. (US Patent #10,254,214)
- Simplified legacy designs, reducing electrical BoM cost by ~95% while increasing the flexibility of the tool.
- Developed embedded control systems for automated inspection tools for various industries, including semiconductor manufacturing, medical research, and PCB assembly.
- Played key role in standardizing two companies electronics design and documentation processes during an acquisition.
- Implemented automated programming and test procedures for PCBA teams.

Electronics Engineer   September 2014 – August 2015
- Develop automated 3D imaging microscopy hardware for various manufacturing industries.
- Implemented FA procedures, as part of a feedback loop into our design processes.

Pillar Printing LLC – Bellmore, NY   April 2013 – May 2018
CEO and Founder
- Developed python libraries to create a web-based UI for 3D printing.
- Designed and built a new electronics package for machines to include safety measures to facilitate remote printing.

Rapid Innovations – North Bellmore, NY   August 2012 - June 2013
Engineering Intern
- Designed embedded systems for specialized products for customers.
- Developed efficient algorithms to save CPU time on microcontrollers.
- Created pass/fail test jigs for PCBs, providing manufacturing with an immediate feedback loop.

SKILLS

- Languages: C++, C#, Embedded C, Python, Java, AVR C, Arduino
- Tools: Linux, Eagle, Altium Designer, MPLAB, Atmel Studio, Visual Studio, Solidworks, Autodesk Fusion 360, 3D Printing
- Experience using Git and GitHub

HONORS/AWARDS

- Winner of Hofstra-CPX Entrepreneurship Competition 2013, an engineering startup competition in the STEM fields.
- Winner of Hofstra-CPXi Engineering Competition 2014