

Benjamin Lorenzetti

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Education

University of Cincinnati

BS in Electrical Engineering, 3.29/4.00

Cincinnati, OH

2010–2016

Experience

Proctor & Gamble Duracell

Manufacturing Engineering Co-op

Cleveland, TN

Summer 2015

Managed several engineering projects at the C&D cell make plant and the packaging center:

- Completed design review, capacity study, and VAT plan for new robotic copalletizers
 - Led cross-disciplinary team of line technicians, E&I technicians, HS&E, procurement, and engineering
 - Primary POC for vendors
- Prepared scope of work and solicited quotations for PLC replacement
- Organized presentation for management on new packaging technologies

University of Cincinnati BioMicroSystems Lab

Research Co-op

Cincinnati, OH

Fall, Spring 2014

Responsible for improving user interface of electrochemical, analytic sensors being developed at UC.

- Designed PCB for interfacing commercial potentiostat with Pb & Mn sensors
- Built enclosure for potentiostat/PCB
- Wrote software GUI in C/C++, utilizing libusb, Berkley Sockets, and pthreads library

Toyota Technical Center

Materials Research Co-op

Ann Arbor, MI

Spring, Fall 2012

Fabricated superparamagnetic nanoparticle compacts and optimized their bulk-magnetic properties.

- Improved oxygen-free enclosure for transporting air-sensitive nanoparticles
- Developed sintering/annealing technique for *Permendur*/*SiO₂* core/shell nanoparticles
- Managed day-to-day maintenance and chemical inventory of Lab M2
- Oversaw installation of vibrating sample magnetometer (VSM) and authored TTC operating manual

TecEdge Discover Lab

Engineering Intern

Dayton, OH

Summer 2011

Compared various commercial technologies for their potential to generate power in remote locations

Technical Skills

Languages and Libraries: C, C++, libusb, pthreads, MathGL, \LaTeX , MATLAB, HTML5, CSS3

Tools: CadSoft Eagle, KiCad, NGSPICE, DraftSight, SolidWorks, Apache, Postfix

Honors and Awards

Eagle Scout Award, National Merit Scholar, UC | 21 Scholar, Elks Most Valuable Student Scholar

Personal Projects

Easy-PCB Oven

<https://github.com/benlorenzetti/Breadboarding-Oven>

A homemade convection oven for paste soldering SMD and BGA components