

Benjamin Lorenzetti

☎ +1 (937) 522 1673 • ✉ lorenzbn@mail.uc.edu

Education

University of Cincinnati

Pursuing BS in Electrical Engineering, Minor in Chemistry, 3.56/4.00
Previously pursuing BS in Mechanical Engineering

Cincinnati, OH

2013–Dec. 2016
2010–2012

Experience

Proctor & Gamble Duracell

Manufacturing Engineering Co-op

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

Cleveland, TN

Summer 2015

University of Cincinnati BioMicroSystems Lab

Research Co-op

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

Cincinnati, OH

Fall, Spring 2014

Toyota Technical Center

Materials Research Co-op

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

Ann Arbor, MI

Spring, Fall 2012

TecEdge Discover Lab

Engineering Intern

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

Dayton, OH

Summer 2011

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