Benjamin Lorenzetti

 +1 (XXX) XXX XXXX   •   ✉ lorenzbn@mail.uc.edu

Education

University of Cincinnati   **Cincinnati, OH**
Pursuing BS in Electrical Engineering, Minor in Chemistry, 3.56/4.00   *2013–Dec. 2016*
Previously pursuing BS in Mechanical Engineering   2010–2012

Experience

Proctor & Gamble Duracell   **Cleveland, TN**
Manufacturing Engineering Co–op   *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   **Cincinnati, OH**
Research Co–op   *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++, utilitzing libusb, Berkley Sockets, and pthreads library

Toyota Technical Center   **Ann Arbor, MI**
Materials Research Co–op   *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 $Permendur/SiO_2$ 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

TecÊdge Discover Lab   **Dayton, OH**
Engineering Intern   *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