

CHARLES PORTNER

1241 Locust Ave • Halethorpe, MD 21227 • 202-340-9282 • cportne1@umbc.edu

- EDUCATION:** University of Maryland, Baltimore County
Bachelor of Science in Chemical Engineering
Expected Graduation Date - May 2018 - GPA 3.0/4.0
- RELEVANT COURSEWORK:** Organic, Environmental, and Physical Chemistry, Kinetics, and Separation Processes
Chemical Engineering Analysis, Environmental Engineering, Thermodynamics, Fluid Mechanics, Heat & Mass Transfer, Global Engineering
- RELEVANT EXPERIENCE:**
- Portner Brewhouse – Alexandria, VA
Consultant/Designer/Installer
Apr 2011 - Present
- Advise owners on sizing and design layout for a 25-barrel brewing system
 - Collaborate with contractors to develop power supply, floor plan, plumbing, and cooling requirements
 - Oversee installation of fermenters, mashers, plumbing, and cooling systems
 - Design and install IP network, commercial audio, and security networks
- Engineers Without Borders – Montgomery College - Rockville, MD
President - Feb 2014 – May 2014
Member - 2012 - Present
- Organized with students and professional engineers to complete humanitarian projects abroad
 - Prototyped the following projects with club of 20-25 to before implementing
 - Water-wheel hydraulic system in Cameroon (Ongoing)
 - Community learning center Panama (Ongoing)
 - Water distribution system El Salvador (Completed 2012)
- ADDITIONAL EXPERIENCE:**
- Craft Light Electric - Bethesda, MD
Electrical Mechanic
Jan 2010 – Aug 2013
- Responsible for layout, installation, and testing of complex electrical circuits
 - Worked with customers to design power supply requirements for desired installations
- SKILLS:**
- Adept with machine shop and hand tools (metal and wood)
 - Experienced with Microsoft Office, Aspen, CoCo, COMSOL, Matlab, Solidworks, Pro E/Creo, Adobe Suite
 - Familiar with lab spectroscopy, chromatography, potentiometry, IR
 - Strong team skills, creative, economic, good humored
- EXTRACURRICULAR/ MEMBERSHIPS:**
- Design, construct and test motorcycles in my free-time
 - Winning team of Last Plan Standing entrepreneurial competition 2011 for Portner Brewhouse start-up
 - 2012 - Present Member of AiCHE and EWB
 - Avid outdoorsman/bushcraft enthusiast