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| <b>Objective</b>       | A position in the biopharmaceutical industry using my education, laboratory skills, as well as my manufacturing & process design experience to develop/manufacture new medicine.   |
| <b>Education</b>       | <p><b>Virginia Polytechnic Institute and State University</b>, Blacksburg, VA, May 2013</p> <p><b>B.S. in Biological Systems Engineering</b>, In Major GPA: 3.63/4.0</p> <ul style="list-style-type: none"><li>• <b>Option: Bioprocessing</b>      <b>Minor: Green Engineering</b></li><li>• <i>Relevant Courses:</i> Protein Separation Engineering, Bioprocess Engineering, Biobased Industrial Polymers, Biological Process Plant Design, Life Cycle Analysis</li></ul> <p><b>Senior Design Project</b>, August 2012-May 2013</p> <ul style="list-style-type: none"><li>• Worked in coordination with MedImmune to develop and optimize a downstream separation process for a monoclonal antibody to reduce impurities through multiple unit operations (chromatography and filtration) and then scaled up the process and designed a disposable facility to manufacture the mAb to meet clinical demands.</li></ul> <p><b>Passed the Fundamentals of Engineering Exam</b>, April 2013</p> <p><b>Study Abroad</b>, Spring 2012</p> <p><b>Università degli Studi di Bari Aldo Moro</b> (University of Bari, Italy)</p> <ul style="list-style-type: none"><li>• Awarded a scholarship to participate in the <i>Trans-Atlantic Biosystems Engineering Program</i>, the major challenge was being fully immersed with culture and classes and having to evolve my learning style to succeed in the theory-based learning taught at UniBa compared to the technical style at Virginia Tech.</li></ul>                          |
| <b>Experience</b>      | <p><b>Contract Process Engineer II, Merck/Agile1</b>, Elkton, VA, October 2013-Present</p> <ul style="list-style-type: none"><li>• Worked in the Biologics department to support technical operations in the upstream process (fermentation &amp; primary recovery) of a new biopharmaceutical produced from an E.Coli cell culture in a GMP regulated environment.</li></ul> <p><b>Research Assistant, Biological Systems Engineering Department</b>, Aug. 2012-Aug. 2013</p> <ul style="list-style-type: none"><li>• Worked to efficiently produce methane to be used as a biogas from animal waste products, mainly cow manure through the use of an anaerobic digester.</li><li>• Gained useful laboratory skills that can be applied across laboratory settings.</li></ul> <p><b>Contractor</b>, Quality Agents/Kenco Logistics, Chattanooga, TN, Summer 2013</p> <ul style="list-style-type: none"><li>• Performed a temperature validation on a warehouse that stores pharmaceutical products/medical devices that must be stored in a certain range of temperatures. Mapped the temperatures at 30 locations in the warehouse for a week and tested a 'worst-case scenario', compiled the data and report in accordance to GMP for the manufacturer.</li></ul> <p><b>Sherwood Forest Boys and Girls Camp</b>, Summers 2007-2010</p> <ul style="list-style-type: none"><li>• Played a dual role in being a counselor for a group of 3-5 year olds while also being a swim and dive instructor for all ages.</li></ul> |
| <b>Related Skills</b>  | Worked in a GMP environment with lean and six sigma methodologies, Yellow Belt Certified, Aseptic Processing training, varied laboratory skills, and some work with SAP and Delta V systems.   |
| <b>Computer Skills</b> | MATLAB, AutoCAD, SuperPro Designer, SimaPro, Inventor, LabView, Microsoft Office: Excel, Word, Visio & PowerPoint.   |