

Zachary A. Rambo

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OBJECTIVE

To utilize my Engineering & Entrepreneurial expertise to innovate, develop, manufacture, and market new products & equipment in a challenging hands on environment.

EDUCATION

Lehigh University, Bethlehem, PA May 2014

M.Eng. in Technical Entrepreneurship, GPA: 3.50

Relevant Courses: Integrated Product Development; Creativity & Systematic Innovation; Methods in Visual Thinking; Intellectual Property Creation & Management; Methods in Prototyping; Entrepreneurial Process

Awards: 2013 Lehigh Valley Startup Weekend 2nd Place Champion

Lehigh University, Bethlehem, PA May 2013

B.S. in Mechanical Engineering, Minor in Aerospace Engineering, GPA: 3.16

Relevant Courses: Advanced Strength & Mechanics of Materials; Manufacturing; Mechanical Elements; Aerodynamics; Aircraft Design; Dynamic Control Systems; Propulsion Systems

Awards: Andrew Wilson Knecht III Memorial Award

EMPLOYMENT

Product Development Consultant, NEATCap, LLC, Bethlehem, PA 2013-Present
Facilitated the design and manufacture of medical devices for infants

Lead Engineer & Product Developer, Bore Tech Inc., Quakertown, PA 2012-Present
Re-engineered & enhanced products and manufacturing processes

Shop Monitor & Technician, Lehigh University Design Labs, Bethlehem, PA 2010-2014
Instructed students in proper use of woodworking, metalworking, laser cutting, and 3D printing equipment

RELATED EXPERIENCES

Manufacturing Teaching Assistant, ME240 Teaching Staff, Lehigh University 2013
Assisted and educated students in correct use of CNC machining and injection molding equipment

Co-President & Lead Engineer, Lehigh Aerospace Club, Lehigh University 2010-2013
Motivated, supervised, & enlightened members in principles of aircraft design & construction
Led the AIAA Design/Build/Fly Team in engineering, constructing, & testing model aircraft to accomplish strict mission requirements for international competition

Project Leader, CEWA Tech Integrated Product Development Team, Lehigh University 2012
Managed & supported team members in creating a Concentrated Solar Power device for manufacture

Flight Engineer, Lehigh Hopper Spacecraft Simulator Team, Lehigh University 2010-2011
Enhanced, upheld, & analyzed systems and components of the Hopper Spacecraft airframe

TECHNICAL SKILLS

SolidWorks; AutoCAD; NX CAD/CAM; LabVIEW; MatLab; Microsoft Office; GIMP; Inkscape; Arduino

CNC machining; injection molding design & manufacturing; 3D printing; metalworking; composites fabrication; woodworking; product testing & validation; electronics prototyping; design for manufacture

German (intermediate)

INTERESTS

Design, construction, and operation of aircraft, multi-rotors, & UAVs; remote control vehicles; ATVs & 4x4 off-road vehicles; rocketry; disc sports; auto racing; cycling; snowboarding

Additional information available upon request or at www.zacharyrambo.com