

Jack Cian Boland

Portfolio: bolandcommajack.com

Objective	<i>To obtain a full-time position involving either mechanical engineering and/or product design.</i>
Education	<p>Stanford University M.S. Design Impact, June 2022</p> <p>University of Wisconsin-Madison B.S. Mechanical Engineering, May 2013 Certificate in Integrated Studies in Science, Engineering, and Society with a focus in design</p>
Work Experience and Research	<p>Product Realization Lab - Stanford University, Stanford, CA // <i>Course Assistant</i> // Sept. 2019 - Current</p> <ul style="list-style-type: none">Mentoring and teaching of cross-disciplinary students on the design and manufacturing process ranging from conceptualization to prototyping and fabrication involving various manufacturing techniques. <p>Delve San Francisco, CA Mechanical Engineer // Sept 2013 - Aug 2019</p> <ul style="list-style-type: none">Drove development of new products from early brainstorming and concept generation to prototyping and technical execution through DFM and manufacturing handoff.Engaged directly with clients to best understand their needs and properly incorporate their expertise in the development process.Worked closely a diverse team of design researchers, industrial designers and engineers to balance technical requirements with aesthetic and usability objective to produce a more successful product for our clients.Developed complex CAD databases employing robust Master Modelling techniques for driving complex assemblies <p>Prototype Software Developer // Jan 2016 - Aug 2019</p> <ul style="list-style-type: none">Designed and implemented basic GUIs to display sensor data, perform real time analysis/computation and allow for users to interact with test setups dynamically.Perform live image processing to provide qualitative analysis of the performance of various test conditions in an experimental setup. <p>Otherlab San Francisco, California // <i>Junior Engineer</i> // June-Aug 2012</p> <ul style="list-style-type: none">Worked both independently, and in collaboration, on various engineering projects ranging from an electric hydrofoil to inflatable car prototypes for automotive company.Redesigned, tested and fabricated components for an electric hybrid cargo tricycle using CAD and a wide variety of prototyping tools, such as laser and water-jet cutters. <p>Frontier Fellow & Undergraduate Intern <i>Wisconsin Institute for Discovery</i> // Sept. 2012-Aug. 2013</p> <ul style="list-style-type: none">Independent research project focused on developing a mechatronic apparatus for physically rendering data streams and environment interaction, using computer controls, microcontrollers and CAD.Designing and creating devices for horticulture based projects in a new Art/Optimization collaboration lab.
Honors, Awards and Competitions	<ul style="list-style-type: none">Frontier Fellow; Wisconsin Institute for Discovery; Spring 2013Global Steward's Sustainability Prize competition; Spring 2012; GRAND PRIZE (Awarded \$17,000)CleanTech Open 2012; SEMI-FINALISTGlobal Steward's Sustainability Prize; Spring 2013; FINALISTDean's Honor List; Fall 2009 & Fall 2013
Leadership	<p>Engineers Without Borders <i>Financial Manager</i> May 2011 - June 2013</p> <ul style="list-style-type: none">Managed and oversaw all of the financial transactions and records of the five different projects (Haiti, El Salvador, Kenya, Rwanda, and Domestic) within the Engineers Without Borders UW Madison Chapter.