

Erik Roby

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<https://www.erikroby.com/>

Education

Bachelor of Science, Mechanical Engineering, 2008

University of Washington, Seattle, WA

- Major: Mechanical Engineering
 - Minor: Mathematics
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Experience

Mechanical Engineer, Meta Reality Labs Research, Redmond, WA (*June 2019 - Present*)

Working on cool stuff.

Mechanical Engineer, Sigma Design, Vancouver, WA (*May 2013 - June 2019*)

Worked on product development, R&D lab equipment, assembly tools and fixtures, etc. using Solidworks and Creo Elements/Direct. Worked with clients on and off-site.

Owner, Portland Reflector, Portland, OR (*February 2014 - July 2018*)

Took an idea for a magnetic bike reflector from a concept to sales. Handled mechanical aspects of concept through production designs, testing, material and manufacturer sourcing, website development, marketing, sales, and shipments.

Mechanical Engineer, Sherpa Design, Portland, OR (*November 2011 - April 2013*)

Worked on product development using NX 7.5, SolidWorks 2012, and Pro/E Wildfire 5.0. Designed parts and products for various industries, including aerospace, RF testing, focused ion beam micromachining, and consumer products. Designed parts for injection molding, machining, and sheet metal fabrication. Worked with clients on and off-site.

Design Engineer, Williamson & Associates, Seattle, WA (*August 2011 - September 2011*)

Worked as a contractor designing aluminum components for a robotic subsea drill. Created drawings for each component, which consisted of machined, welded, and sheet metal subsections. Assisted in the assembly of these new components as well as the general assembly of the drill.

Validation Engineer, Dendreon, Seattle, WA (*August 2009 - April 2011*)

Assisted the Validation Department during the FDA approval of the first prostate cancer immunotherapy. Designed fixture equipment to perform air flow studies in manufacturing biological safety cabinets. Wrote internal protocols and reports. Reviewed and approved contract manufacturer protocols and reports. Conducted engineering shipping studies. Managed interdisciplinary teams to conduct air flow studies at manufacturing facilities.

Co-Founder, Advanced Motion Technologies, Seattle, WA (*May 2008 - May 2009*)

Co-founded a technology based startup to develop real-time portable gait analysis for the running shoe industry. Worked to gain marketing data through targeted online surveys. Met with both medical and athletic experts in preparation for the development of a prototype. Managed most day-to-day activities including: market analysis, corporate structure issues, and patent drafting.

Product Management Internship, Greenwood Technologies, Bellevue, WA (*July 2008 - February 2009*)

Worked with a local startup to acquire CE Certification for their line of high efficiency wood furnaces in order to sell the products in Europe. Researched CE regulatory requirements and developed a strategy to acquire certification. Designed new marketing tools to show customers expected savings. Assisted engineering and marketing teams with assorted projects.

Skills

- **Product Design:** One-off through high volume; injection molding, machining, sheet metal.
 - **Software:** Creo Elements/Direct; SolidWorks; Adobe Photoshop, Dreamweaver.
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Awards

- Certificate of High Scholarship – 2004 - 2008
- Annual Dean's List – 2004 - 2008
- Boy Scouts of America Eagle Rank – 2004