

# Luke Liechty, PMP

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## PROFESSIONAL SUMMARY

A diverse, technically skilled professional with an extensive background as a mechanic and manager in the bicycle industry, and several years of in-depth experience in quality and manufacturing engineering for new product development and overseas quality control systems design. Self-motivated and detail-oriented with exacting standards for personal and professional work, bringing an innovative design sense and proven analytical and problem-solving skill sets to all manner of technical projects.

## PROFESSIONAL QUALIFICATIONS

- Project Management Professional certified (2017)
- Experienced with 3D printing and rapid prototypes
- Strong mathematical and mechanical aptitude
- Firm grasp over quality statistics, GR&R studies
- Innovative problem-solver
- Highly proficient with SolidWorks and MS Office
- Proficient with Mathematica, Minitab, Illustrator, KeyShot, and L<sup>A</sup>T<sub>E</sub>X typesetting
- Refined verbal and written communication skills
- Spanish: advanced verbal, intermediate written

## EDUCATION

**Reed College**, *Portland, OR*  
B.S. in Physics.

May, 2014

Thesis work explored Stirling engines and small-scale power measurement. Coursework included advanced electrodynamics, advanced classical and quantum mechanics, special and general relativity, multivariable calculus, linear algebra, number theory, computer theory, logic, philosophy of science.

## PRESENTATIONS

Liechty, L. & Miller, R., (2017). *Real-time Process Controls Across the Ocean*. Presented at the WESTEC Conference, Los Angeles, CA.

## WORK EXPERIENCE

**Product Technician**, Boa Technology, Inc., *Denver, CO*

Feb 2018 - Present

- Performs root cause analysis on quality issues pertaining to multiple product suites. Includes developing and managing test, inspection, and corrective action plans.
- Designs and qualifies gauges, fixtures, and optical CMM programs for validating precision plastic parts.
- Manages the implementation of advanced quality tools at contract manufacturers in Asia, including employee training and gage repeatability and reproducibility studies.
- Responsible for creating and updating engineering drawings and quality/manufacturing documentation for multiple product suites. Includes change control process management.
- Oversees the construction of plastic injection molds by managing test and inspection plans as well as providing technical support to the contract manufacturer.
- Assists with hiring and training new employees.

**Engineering Technician**, Boa Technology, Inc., *Denver, CO*

Oct 2015 - Feb 2018

- Planned and executed the design and implementation of a cloud-based, real-time, automated quality control system that monitors process stability and reduces production costs by \$80K per product suite.
- Travelled to Asia multiple times and successfully conducted supplier audits, new quality control systems implementation, and training for contract manufacturer employees.

- Assisted with the construction of plastic injection molds by producing detailed dimensional reports and technical suggestions to the managing engineer.

**Manager**, The Singletrack Factory, AZ, *Scottsdale, AZ*

Oct 2014 - Jul 2015

Second location for a premier, Denver-based bicycle shop.

- Managed sales, inventory, purchasing, and repairs.
- Designed and constructed merchandise displays, bicycle storage solutions, and workshop layouts.
- Scheduled and performed complex repairs on state-of-the-art bicycles.
- Assisted with the hiring and training of new employees.
- Managed the store to self-sufficiency through exemplary customer service and communication practices, and successfully transferred it to new management.

**Mechanic**, the Singletrack Factory, *Denver, CO*

Feb 2008 - Sep 2014

- Troubleshoot mechanical issues, and performed high-quality bicycle repairs.
- Communicated directly with customers to match their requirements to the proper product or service.
- Forged and maintained robust customer relations through open communication and high-quality work.

**Co-Founder**, Backyard Bike Shop, *Denver, CO*

May 2007 - Aug 2007

- Opened a full-service, neighborhood bicycle repair business in a home garage.
- Executed marketing efforts and managed repairs, scheduling, and customer relations.
- Entrepreneurial spirit and mechanical aptitude noticed by local bicycle shop owner, leading to eventual employment.

ADDITIONAL ASSETS AND DISTINCTIONS:

- National Merit Scholarship finalist
- 3rd place overall, US Junior Solo Bagpipe Championships (2008)
- Freelance bagpiper