Sam Conklin

Experienced Mechanical Engineer, Technical Designer, Maker of Things

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EXPERIENCE

adidas Future, Portland, OR — *Mechanical Engineering Manager*

JUNE 2017 - PRESENT

- Lead mechanical testing from machine design, to fabrication and validation
- Manage $750K budget to maximize impact across a broad vendor network
- Executed an onsite DOE investigating lattice geometry during a 4-month assignment at Carbon3D
- Monitor innovation culture and recommend solutions to senior leadership through involvement with the Culture Team

adidas + OSU, Corvallis, OR — *Masters Thesis*

JUNE 2015 - JUNE 2017

- *A Regression Approach to Predicting Traction of Elastomers on Macroscopically Smooth Surfaces*
- Identified predictors of traction by exploring wide ranging variables from molded tread pattern to molecular surface interactions
- Analyzed results with advanced statistics and succinctly reported findings for direct application to product

Metrofiets Cargo Bikes, Portland, OR — *Honors Thesis*

JANUARY 2014 - JUNE 2015

- *Creation of a Carbon Fiber Frame for Metrofiets Cargo Bikes*
- Characterized composite properties by testing 2D and 3D test geometries
- Designed frame CAD and layup schedule using composites FEA
- Manufactured 3D printer for internal tooling and completed wet layup of frame test section and tested frame to failure under instrumentation

Oregon State University Bike Shop, Corvallis, OR —*Mechanic*

DECEMBER 2011 - JUNE 2015

EDUCATION

Oregon State University, Corvallis, OR — *MS*

JUNE 2017

- Mechanical Engineering, Material Mechanics, 3.79 GPA

Oregon State University, Corvallis, OR — *HBS*

JUNE 2015

- Honors College Mechanical Engineering, 3.72 GPA
- Senior Capstone: *Composite FEA for Performance and Safety Certification of a Monocoque Formula Race Car Chassis*

SKILLS

Problem Solving, Self-Teaching

Data Analysis – *Python, MATLAB, Excel*

CAD/Design – *SolidWorks, Rhino, Grasshopper, FEMAP, Illustrator, Photoshop*

3D Printing – Design for print, process assessment, *DLS, FDM*

Microelectronics – *Arduino, Raspberry Pi*

SUCCESSFUL PROJECTS

Adidas 4D *Additively Manufactured Midsole*
Engineering lead on 2021 4D PULSE
Supporting engineer on 3 prior models

Adidas Strung *Robotic Textile Creation*
Collaborated in invention of process and machinery, material optimization, and development of product

Alberta Street Gallery 6x6 Art Show
Physical + Digital Interactive Sculpture
2020 – Honorable Mention, Most Creative
2021 – Best in Show

PATENT

EP 3 549 470 A1 Articles of Footwear with Uppers Comprising a Wound Component and Methods of Making the Same

REFERENCES

Anna Shih
Senior Manager Technology, adidas Future
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Howard Barney
President, Bayhouse Corp.
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