

THOMAS WUCHERPFENNIG

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EDUCATION

Stanford University

Master of Science, Expected June 2019

Design Impact

GPA 4.0/4.0

Carnegie Mellon University

Bachelor of Science, May 2015

Major in Mechanical Engineering

Minor in Industrial Design

GPA 3.89/4.0

WORK EXPERIENCE

Artemis Racing 35th America's Cup

Draftsman, Summer 2015 - Summer 2017

Alameda, CA

Hamilton, Bermuda

- Created 2D drawings and 3D models for a large number of components of AC50 racing yacht and AC45 test yacht, including hulls, wing flaps, dagger boards, and rudders
- Generated kinematic 3D model of wing and wing control system for AC50 racing yacht
- Developed 3D aerodynamic surface model of AC50 racing yacht for simulating a wide range of fairing geometries in order to optimize performance

Tesla Motors

Vehicle Engineering Intern, Fall 2013 and Summer 2014

Fremont, CA

- Developed front underbody aerodynamic shield for Model X to reduce drag and protect front subframe and battery pack
- Rear bumper beam low speed crash analysis for Model X
- Designed headlamp and front fender brackets for Model X
- Designed and sourced parts for Model S right hand drive and dual motor prototype vehicles

Courageous Sailing Center

Instructor and Race Coach, Summer 2012 and 2013

Boston, MA

- Taught sailing to 10-18 year old children in Boston Harbor

PROJECTS

Formula Society of Automotive Engineers

Systems Leader and Executive Board Member, 2011-2013

- Designed and created 3D model of racecar body panels in Solidworks
- Led the fabrication of carbon fiber bodypanels
- Involved in overall design and layout of racecar systems
- Managed team members and resources for design, fabrication, and testing of the racecar

SKILLS

Skills – Welding, Pottery, Woodworking, Machining, Photography, Sketching, Illustrating

Software – SolidWorks, Catia, Adobe CS, AutoCAD, Python, Microsoft Office

Machines – TIG Welder, Table Saw, Miter Saw, Band Saw, Mill, Lathe, Joiner, Planer

Languages – Fluent German, Proficient Spanish

ACTIVITIES

Photography 2011-Present

- Nature and landscape photography using large and medium format film cameras
- Developing film negatives and silver gelatin prints in a darkroom

Sailing 2006-Present

- US Sailing Keel Boat Instructor Certification, Summer 2013
- US Sailing Small Boat Level One Instructor Certification, Summer 2012
- Belmont Hill High School Sailing Team, 2009-2011
- Alvimedica Volvo Ocean Race Shore Team, Summer 2015

Running 2015-Present

- Compete in road and trail races running an average of 30-40 miles a week and a member of the Stanford running club

Swimming 2006-Present

- Compete in open water races and a member of the Stanford masters swimming team

HONORS

College of Engineering Dean's List, Fall 2011-Spring 2015

Magenta Foundation Exhibition Why People Photograph, Summer 2015

National Summa Cum Laude Society, 2011