

ADAM LIBERT

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www.AdamLibert.com

OVERVIEW

I am passionate about:

- Leading small teams of engineers to tackle difficult technical systems.
- Identifying simple solutions to complex interdisciplinary engineering challenges.
- Providing technical and strategic advice to coworkers and startups.

EXPERIENCE

2014-Present

Senior Design Criteria Engineer, SpaceX, Los Angeles, CA

- Advising teams in both strategic and detailed technical decision making across multiple company programs.
- Leading the top-level requirements definition and coordinating systems engineering of the Moon Landing System.
- Formulating novel methods to achieve order-of-magnitude streamlined qualification with no change in risk posture.
- Spearheading the framework of the Design Process at SpaceX which the company leverages for all programs.

Lead Engineer, SpaceX

- Led the Water Ballast project, schedule, and team to improve Dragon capsule stability post-splashdown.
- Successfully integrated complex system of custom pumps, valves, non-explosive actuators, and soft goods.
- Led recruiting efforts for the team and mentored interns to accomplish and deliver significant technical work.

Responsible Engineer II, SpaceX

- Brought in schedule 2+ months to the left on Dragon Seat Actuators by identifying critical path and reducing scope.
- Proactively identified failure modes in electric motor months before they occurred, reducing time to replacement.
- Redesigned and qualified the Grid Fin Actuator for 2x capability and 5x life while saving \$40k and 20 lbm per core.
- Architected, designed, and commissioned a fully automated hydraulic, pneumatic, thermal, mechanical test stand.
- Collaborated with vendors to develop specifications and procure \$5M+ of hydraulic and refrigeration equipment.

2012-2014

Engineering Researcher, Hardt Lab, MIT, Cambridge, MA

- Led the precision machine design for a novel manufacturing process that prints micron-scale patterns at high rates.
- Presented at thin film conferences focused on enabling printed electronics at a fraction of the current cost.
- Collaborated with two teammates to develop a real-time closed-loop control algorithm for consistent printing.

Summer 2011

Engineering Researcher, MODLAB, University of Pennsylvania, Philadelphia, PA

- Led a team of five to design and prototype a spiderman-like robot that could swing from ceiling object to object.

EXPERTISE

Leading and advising teams focused on machine design, automation, and process control for electromechanical and fluid systems - from R&D to production assets. Demonstrated expertise at both the component and system level.

START-UPS

2012-Present

Inventor and Investor/Advisor, WAZER, Brooklyn, NY (www.WAZER.com)

- Led the mechanical design and fabrication of the first \$5,000 low-cost CNC waterjet cutter.
- Successfully Kickstarted the product, securing \$1.5MM funding and hundreds of orders.
- Raised seed round funding from SOSV/HAX and others. Currently raising Series A.
- Helped build out a team of 25+, a flex facility, and have delivered hundreds of WAZERs to customers.

2017-Present

Investor/Advisor, Farther Farms, Rochester, NY (www.FartherFarms.com)

- Invested in and provided advice for Farther Farms, a food tech company.

2012-2015

Investor/Advisor, Bypass POS, Austin, TX (www.BypassMobile.com)

- Invested in and provided advice for CEO of Parametric Technologies, which sold to Bypass Mobile.

COMMUNITY

2018-Present

Founder and Leader, Motor Mongers, SpaceX

- Identified a lack of communication between teams and common failures across independent company programs.
- Created support group for electromechanical system owners to promote information exchange of lessons learned.

2012-2013

Recruitment and Social Chair, Graduate Association of Mechanical Engineers, MIT

- Planned both of the department's recruitment weekends, the new student orientation, and the year's social events.

EDUCATION

June 2014

Massachusetts Institute of Technology, Cambridge, MA

M.S.E. Mechanical Engineering

M.S.E. GPA: **5.00/5.00**

May 2012

University of Pennsylvania, Philadelphia, PA

B.S.E. Mechanical Engineering, Summa Cum Laude

B.S.E. GPA: **3.84/4.00**

Relevant Coursework

Graduate level courses in Machine Design; Controls; Mechatronics; Robotics; Aerodynamics; Entrepreneurship

OUTDOORS

Nationally competitive rock climber, PADI Advanced certified scuba diver, FII certified freediver, AIARE certified skier