

DAVID GOLIGORSKY

PRODUCT DESIGNER & AEROSPACE ENGINEER

144 EMERSON ST APT C PALO ALTO CA 94301 / 617 447 4079 / DAVID.GOLIGORSKY@STANFORD.EDU

EDUCATION

Boston University, BS Aerospace Engineering (2006)

Stanford University, MS Engineering, Joint Program in Design (2010)

COMPUTER-BASED TOOLS

CAD: SolidWorks, Autodesk Inventor

CAM: GibbsCAM

FEA: COSMOSWorks

Programming: Arduino, Processing, ASProxy, MATLAB, C++, HTML

Other: Adobe CS4, MS Office, iMovie, OSX, Windows

MANUFACTURING SKILLSET

3-axis CNC mill, LaserCMM, sign cutter, lathe, mill, sandcasting, TIG, MIG, O/A welding & brazing, finishing, analog electronics, sewing, knowledge of advanced manufacturing methods

GRADUATE COURSEWORK

Fundamental Visual Language (A-) / Design and Manufacturing (A)

Human Values and Innovation in Design (A) / Visual Language II (A)

Advanced Product Design: Needfinding (A-) / The Designer's Voice (audit)

Advanced Product Design: Formgiving (A) / Case Studies in Aircraft Design (audit)

Advanced Product Design: Implementation (B+) / The Structure of Design Research (A)

Building Innovative Brands (at Stanford Graduate School of Business, "High Pass")

Computer-Aided Product Creation (A-) / Art and Electronics (A)

Master's Project (in progress)

UNDERGRADUATE THESIS AIR VEHICLE DESIGN

Team leader and systems engineer for the design of a short takeoff and landing personal air vehicle. Integrated structural, aerodynamic, propulsion, and controls systems.

HONORS

2008 Stanford Global Innovation Tournament Ingenuity Award *and* Audience Award

2006 Boston University College of Engineering Student Leadership Award

2006 Chair of American Society of Mechanical Engineers, Boston University

2002 Certificate of Merit from US Public Health Service for research

2002 Certificate of Achievement presented by US Army for research

ACTIVITIES & INTERESTS

Bicycled from Portsmouth, NH to Vancouver, BC for affordable housing charity

Touring and recorded musical saw player

Founded penduum.com (6,000 hits/month from over 100 countries)

Race road and cyclo-cross bicycles

Manufacture cycling hats, musical saw bags, and gentlemen's pocket squares

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SELECTED WORK EXPERIENCE

Head Teaching Assistant for ME314 "Good Products, Bad Products."

JANUARY 2010 - MARCH 2010 / STANFORD UNIVERSITY / STANFORD, CA

Marketed the course to bring record enrollment, doubling the previous year's number. Created an identity for the course through posters, course reader covers, and student name tags. Partner to Professor David Beach in teaching the qualitative and philosophical aspects of product creation.

REFERENCE PLEASE EMAIL ME FOR REFERENCE CONTACT

Coordinator, David H. Liu Memorial Lecture Series in Design

JANUARY 2009 - JANUARY 2010 / STANFORD UNIVERSITY / STANFORD, CA

Selected and hosted speakers (Andy Spade, Maira Kalman, Alex Wipperfurth, Dr. Jon Cagan, Genevieve Bell, and Ben Fry.) Created a logo for the series, web assets, poster graphics, and subsequent poster campaign.

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Aero/Mechanical Engineer (Graduate Student Internship)

JUNE 2009 - SEPTEMBER 2010 / AEROVIRONMENT / SIMI VALLEY, CA

Worked in the Advanced Systems group developing spy planes. Performed carbon fiber and kevlar layups, designed & instrumented test fixtures, ran analytical studies to improve launch performance, and produced a manufacturing plan for LiPo battery packs for DoT shipping specifications. Performed observation, interview, and immersion in addition to leading conceptual brainstorms for improving planes' ground control units. Generated a control algorithm for single-axis gimbal aircraft station-keeping with wind factor.

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Aero/Mechanical Engineer

JUNE 2006 - JUNE 2008 / MIDE TECHNOLOGY / MEDFORD, MA

Spent two years at this NASA/DoD engineering R&D firm working on many projects, usually simultaneously, primarily using exotic materials to solve challenging solicitations under the SBIR grant umbrella. Primary impact there was mechanical engineering for a hypervelocity (Mach 8) electromagnetic rail-gun projectile (Office of Naval Research, see Transformers 2 movie.) Redesign of a piezoelectric energy harvester, generating usable DC voltage from mechanical vibrations. Performed computational models, finite element modeling, and analytical testing of a thermally-initiated pressure relief valve on solid rocket motors for the Missile Defense Agency. In addition to Engineering efforts, wrote grant proposals for NASA & DoD and initiated company use of rapid prototyping.

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Research Assistant (Undergraduate Student Internship)

MAY 2004 - AUGUST 2004 / HARVARD MEDICAL CENTER BIDMC / BOSTON, MA

Optimized systems to improve confocal microscopy laser output by an order of magnitude. Established the foundation for the lab's use of quantum-dots.

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