

PROFESSIONAL EXPERIENCE

Boston Dynamics, Waltham, MA

Nov 2014 - Present

Advanced Mechanical Engineer

Lead Engineer on a wide variety of projects, impacting multiple robotic platforms across Boston Dynamics. Performed all mechanical design work, including initial concept generation and downselection, detailed design work, structural analysis, COTS component selection/integration, drawing preparation, and part quoting/ordering. Worked closely with and led engineers and technicians across disciplines to manage systems integration, electronics packaging, cable routing, and system assembly/installation.

- All work highly proprietary, but responsibilities include:
 - Project Juno: Wiring Harness
 - Project Juno: Base Arm Link
 - Handle: Electric Wheel and Leg
 - Atlas Humanoid: Torso Frame
 - Atlas Humanoid: Hydraulic Forearm and Wrist

Terrafugia, Woburn, MA

Sept 2007 - Oct 2014

Lead Engineer

- Transition Vehicle Development Program - POC and Pre-Production Prototype Vehicles
 - Lead Engineer of team designing and developing the Transition Roadable Aircraft. Personally responsible for design, analysis, assembly, and testing for suspension/landing gear, fuel, exhaust, steering, and braking systems.
 - Extensive experience with composite part design, analysis, ply-book preparation, construction, and assembly, using pre-preg, vacuum infusion, and wet layup techniques for carbon fiber, fiberglass, and kevlar parts and structural assemblies.
 - Vehicle Crew Chief for all static, drive, and flight testing, with final go/no-go decision. Integral member of testing team, including roles as chase plane co-pilot, test manager, and test driver.
 - Excellent working knowledge of ASTM F2245, FAR 23, and FMVSS Regulatory Requirements
- DARPA Transformer (TX) Phase II (*Dec 2010 - July 2011*)
 - Lead Engineer for design and construction of 3/4-scale ground test prototype

VOLUNTEERING

We Adopt Greyhounds, Inc. (WAG), Glastonbury, CT

Mar 2014 - Present

Vice President, Board of Directors

- Member of the Board of Directors of a 501(c)3 Non-Profit, dedicated to the rescue and placement of retired racing greyhounds into adoptive homes.

EDUCATION

B.S in Mechanical Engineering *ASME Accredited, Graduated Cum Laude*
Tufts University, Medford, MA

2003-2007

ADDITIONAL SKILLS AND INFORMATION

CAD:

- Expert user, Catia V5/V6 (3DEXperience) and Solidworks. Experience with solid and surface modeling, drawing generation, finite element analysis, flow analysis, and PLM/PDM.

Flying:

- **Commercial Pilot, ASEL w/ Instrument Rating:** >300 Hours in fixed and rotary wing aircraft with Tailwheel, High Performance, and Complex Aircraft Endorsements. Ground and flight instruction and experience in jet aircraft, formation flying, aerobatics, and flight test operations. Pursuing FAA Flight Instructor and A&P Mechanic certification.
- **Chase Pilot:** Chase Pilot for Terrafugia flight testing certification program.
- **Commercial UAS Operator:** FAA Part 107 Remote Pilot Certificate