
PROFESSIONAL EXPERIENCE

Boston Dynamics, Waltham, MA

Nov 2014 - Present

Senior Staff Mechanical Engineer

Lead Engineer on a wide variety of projects, impacting multiple robotic platforms across Boston Dynamics. Worked closely with and led engineers and technicians across disciplines to manage and perform design, analysis, systems integration, electronics packaging, cable routing, and system assembly/installation.

- All work highly proprietary and confidential, but responsibilities include:
 - Stretch - Full Robot Wiring Harness, Base Turntable Structure and Systems Integration
 - Handle - Electric Wheel, Leg Structure and Actuator
 - Atlas Humanoid - Torso Frame, 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

CONSULTING

Project Pilot - Terrafugia, Woburn, MA

Oct 2020 - June 2021

- Chase pilot and engineering consultant for successful vehicle FAA certification flight test program.

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, GD&T, finite element analysis, flow analysis, and PLM/PDM.

Flying:

- ***Commercial Pilot, ASEL w/ Instrument Rating:*** Experience in a variety of fixed and rotary wing aircraft with Tailwheel, High Performance, and Complex Aircraft Endorsements. Flight experience in high performance jet aircraft, formation flight, aerobatics, and flight test operations. Pursuing FAA Flight Instructor certifications.
- ***FAA Advanced Ground Instructor:*** Current FAA Advanced Ground Instructor, for teaching FAA pilot ground school classes for ratings at all levels of pilot training.
- ***Commercial UAS Operator:*** FAA Part 107 Remote Pilot Certificate