Marc Stiller

Marc.Stiller@gmail.com – (412) 445-4170

Professional Experience

Boston Dynamics, *Waltham, MA* *Nov 2014 - Present*

Advanced Mechanical Engineer

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

- **Handle Wheel**: High performance electric drive wheel package for next generation Handle robot. Included electric motor evaluation and selection, thermal studies, and sensor integration.
- **Handle Leg**: Leg and electric actuator mechanism for next generation Handle robot.
- **Atlas Torso Frame Upgrade**: Development of welded titanium tubular frame for newest generation of Atlas humanoid robot. Included new vendor qualifying, relationship development, site visits, and sourcing.
- **Atlas Humanoid Forearm and Wrist**:Multi-degree-of-freedom hydraulic forearm and wrist assembly for use in Atlas humanoid robots. Built and maintained multiple assemblies for use across robot platforms.

Terrafugia, *Woburn, MA* *Sept 2007 - Oct 2014*

Lead Engineer

- Transition Vehicle Development Program - POC and Pre-Production Prototype Vehicles
  - Lead Engineer of team of 12 engineers designing and developing the Transition Roadable Aircraft. Designed 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* *2003-2007*
Tufts University, *Medford, MA*

Additional Skills and Information

Flying:

- ***Private 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 in jet aircraft, formation flying, aerobatics, and flight test operations. Completing certification for CPL and pursuing FAA A&P Mechanic certification.
- ***Commercial UAS Operator***: FAA Remote Pilot Certificate

Member: EAA, EAA-Warbirds, AOPA, We Adopt Greyhounds

CAD/CAM: Expert user, SolidWorks and Catia 3DX, including experience with solid modeling, surface modeling, kinematic assemblies, and analysis

Additive Manufacturing: Expert user, HP MultiJet Fusion 4200 System, including maintenance, calibration, job building, operation, and post processing.