**Elliot Palestine**

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**Professional Profile**

Mechanical Engineer with experience in product design with a focus on high-power consumer electronics and structural/dynamic testing. Passionate about continuing and expanding my design engineering skills, while using creativity to contribute unique solutions in a constructive manner. A consistent and responsible member of the team with the ability to adapt in a volatile and fast-paced work environment.

**Experience**

**Starry, Inc.** – Boston, MA January 2016 – August 2016

Mechanical Design Engineering Co-op

* Worked in interdisciplinary engineering and design teams to establish product and feature feasibility through reaching necessary compromises
* Designed mechanical packaging for electronics, with focus on EMI shielding and heat management
* Oversaw design and implemented documentation through entire product life-cycle to strengthen revision control and vendor manufacturing clarity
* Established vendor and manufacturer relationships and procured fabricated parts
* Aided with electrical and RF testing, including onsite assembly of high frequency circuits
* Gained experience in a fast-paced startup work environment and learned how to balance time-management and adaptability

**MIT Lincoln Laboratory** – Lexington, MA January 2015 – June 2015

Mechanical and Structural Engineering Co-op

* Designed and built a test article for pyrotechnic shock and structural health research
* Setup and performed pyrotechnic shock tests to ensure qualification of flight hardware
* Constructed detailed finite element models of flight hardware
* Performed structural and dynamic analysis using Femap and Nastran
* Developed MATLAB scrip files for support in post-processing test data and Nastran output files
* Generated and analyzed Shock Response Spectrum (SRS) and Power Spectral Density (PSD) curves from test data

**Analogic Corporation** – Peabody, MA January 2014 – June 2014

Mechanical Engineering Co-op

* Assisted principal engineers with design and assembly of medical imaging machinery, specifically CT scanners
* Simplified large SolidWorks assemblies and utilized Finite Element Analysis to ensure safety factor qualification
* Designed test fixtures to determine ideal cost efficiency and material properties for polyurethane dampers
* Sourced and procured components, involving internal purchase requisitions and external vendor communication

**Qualifications**

**CAD:** SolidWorks

**Finite Element Analysis:** Femap Nastran, ANSYS Workbench

**Data Acquisition/Analysis:** MATLAB

**Other:** Microsoft Office, Stratasys 3D printing, basic machine shop and power tool operation

**Education**

**Northeastern University** – Boston, MA May 2017

Bachelors of Science in Mechanical Engineering GPA: 3.68

Minor in Physics

**Background and Interests**

* Snowboarding, Hiking, Rock Climbing, Baking