# Harrison M. Leece

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## Education

**Loyola Marymount University,** Los Angeles CA **Expected: May 2020**
BSE, Mechanical Engineering
GPA: 3.84

## Work Experience

**Moog Aerospace,** Torrance, CA, *Engineering Intern* **May 2018-August 2018**

- Project engineering tasks and design work, including ECNs, ECPs, solid model changes, drawing changes, tolerance stack up analysis and tool design
- Investigated failure to find how parts at risk of being scrapped could comply with customer specifications after modification and analyzed tolerance stack up to prevent future failure

**Great America,** Santa Clara, CA, *Deep water lifeguard* **May 2017-August 2017**

- CPR Certified by Ellis & Associates, First Aid Trained

**LMU Campus Event Operations,** Los Angeles CA, *Operations Assistant* **Sept 2016-Present**

- Responsible for safe transportation of people and materials, securing equipment, media setup and IT support for campus events

**Ooyala**, Santa Clara, CA, *IT intern* **June 2015-July 2015**

- Audited backup and security systems, repaired damaged laptops, formatted, and configured new laptops, and supported IT team resolving help desk tickets

## Engineering Projects

**Loyola Marymount Aerospace Research Society (LMARS)**, Loyola Marymount University, *Vice President, Lead Engineer* **January 2018-Present**

- Designed and modeled an injector and oxidizer feed system capable of delivering desired mass flow of oxidizer to combustion chambers of subscale and full-scale hybrid rocket motors
- Designed and modeled test stand and modular oxidizer feed system capable of measuring force curves of subscale motor to be used in future hybrid rocket research at LMU
- Led team transition from solid and hybrid technologies to liquid propulsion, including preliminary research, university relations and recruitment of rocketry experts as mentors.
- Initial designer and programmer for LMU Rocket Trajectory Simulation code
- Analyzed combustion properties to determine liquid engine requirements and desired fuel/oxidizer ratio.
- Responsible for engineering management tasks and team leadership, including system architecture and integration, driving task completion and educating new team members

## Skills

**CAD** SolidWorks, NX; **Code** MATLAB, Java, Python (SciPy), Excel, Git, NASA CEA with applications; **first aid**