***Timothy Lin***

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**2312 Melville Dr. San Marino, CA 91108**

**EDUCATION**

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| --- | --- | --- |
| **University of Central Florida** | **Orlando, FL** | |
| *Master of Science in Mechanical Engineering* | **Aug 2017 to Apr 2019** | |
| Major GPA: 3.5 |  |  |
| **University of California, Irvine** | **Irvine, CA** | |
| *Bachelor of Science in Mechanical Engineering* | **Sept 2009 to Jun 2014** | |
| *Material Science Minor* |  |  |
| **SKILLS** |  |  |
| **Programming:** Matlab, Python, Arduino |  |  |
| **Technology:** Microsoft Office, Linux, ROS |  |  |
| **Design:** SolidWorks, Pro/Engineer, FEA, 3D printing |  |  |
| **Foreign Language:** Conversational Mandarin |  |  |
| **PROFESSIONAL EXPERIENCE** |  |  |
| **Crow Industries** | **Los Angeles, CA** | |
| *Mechanical Engineer Internship* | **May 2018 to Aug 2018** | |

* Designed and rendered spacecraft landers and zero-g cubesat in SolidWorks used in proposals
* Zero-G cubesat assembly designed using widely available modular 80/20 T slot aluminum framing system for ease of manufacturing
* Developed engineering drawings and bill of materials for zero-G cubesat
* Proposed design allowed zero-G cubesat to be successfully manufactured within timeline to test in zero-G flight
* Assisted team members preparing necessary documentations for proposals for NASA and ESA

**PureGear Irwindale, CA** *Mechanical Engineer* **Jan 2015 to Jun 2017**

* Utilized Pro/Engineer to modify components and tooling fixtures during design phases
* Created 3D printed prototype mock ups of mobile and audio accessories for product development
* Communicated with vendor to solve tooling issues while meeting timeline goals
* Helped launch many consumer electronic products before deadline
* Assisted team members in producing documentation to present to clients in Microsoft Office

**PROJECTS**

**IGVC – Intelligent Ground Vehicle Competition 2019**

* Integrated IMU, LiDAR, GPS devices and packages in ROS framework to achieve SLAM map building for autonomous robot navigation
* Created publisher and subscriber python nodes enabling devices to transmit and receive data in ROS

**Python**

* Created a space shooter game using the PyGame module

**EXTRA CURRICULAR**

UCF Robotics Club