**Ryan M. Kissinger**

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**Mechanical Design, Development, Testing, Documentation**

**Profile**

Mechanical Engineering student with academic background in the application of theory and simulations used in planning, designing, developing, testing, and validating mechanical systems. Original thinker and process-minded coupled with a creative artistic flair fostering innovation. Effective team member or at working independently in multiple projects. Inspired problem solver using good judgment in decision making ensuring the highest professional standards. Excellent oral, written, and presentation skills used in clear communications in both technical and non-technical environments. BSME expected 2019; GPA: 3.27.

**Summary of Qualifications**

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| --- | --- | --- |
| * Standard principles & theories | * Planning & Design | * Project Management |
| * 3D Modeling | * Development & Testing | * Technical Documentation |

**Curriculum Completed**

|  |  |  |  |
| --- | --- | --- | --- |
| • Intermediate Dynamics | • Design/Materials | • Fluid Mechanics | • Controls/Thermal System Design |
| • Solid Modeling | • Heat Transfer/Thermo | • Mechanical Vibrations | • Mechatronics I and II |

**Academic Experience & Work Experience**

**Senior Project-Ember, Cal Poly, Co-*Project Manager*** **1/2019-present**

* Conceptualized and completed design process incorporating Solidworks for autonomous fire protection device
* Collaborated with 4 engineers in design process utilizing Mechatronics ensuring success for in-home use

**Quality of Life-Midas Project, Cal Poly, *Volunteer Team Lead*** **9/2018-present**

* Selected as design team lead for mechanical hands prototype intended for 9-year old car accident victim
* Interviewed and selected 7 team members from 65 applicants and raised $5K in project funds in 6 days
* Organized mechatronics, design, and biomedical teams and ensured proper inter-team communication

**Entrepreneurial Project,Cal Poly*, Project Manager/Mechanical Engineer*** **8/2017-present**

* Designed, modeled, and selected components for sport bottle with mechanical supplement delivery system
* Fabricated and currently testing 2 prototypes with provisional patent pending

**Quality of Life- Alps Project, Cal Poly, *Volunteer Team Lead* 4/2018**

* Selected as project leader and managed 3 teams in analysis and redesign of adaptable athletic-use prosthesis
* Corrected faulty run/swim transitional mechanism through in-depth analysis, design, modeling, and testing
* Incorporated 3D modeling, development, and testing for buoyancy reduction, drag improvement, and completed project in less than 6 weeks

**Modular Automation Project, Sigma Phi Delta Cal Poly, *Lead Mechanical Engineer*** **3/2017-7/2017**

* Designed and drafted robot arm mechanical system and acted as project lead engineer
* Collaborated with electrical, computer, mechanical, and CPE’s producing robotic arm with microcontrollers

**Office Max/Chili’s Bar and Grill – Denver, CO** **6/2015-8/2017 & 6/2014-12/2015**

**Technical Skills**

|  |  |  |
| --- | --- | --- |
| * Solidworks, Blender, AutoCAD, FEA | * Simulink | * MatLab, HTML, C, Unix, CSS, Python |
| * Milling, welding, lathework | * GTAW, SMAW | * Microsoft Office Suite, Windows, iOS |

**Education**

**California Polytechnic State University - San Luis Obispo, CA Expected 2019**

Bachelor of Science in Mechanical Engineering Concentration: Mechatronics

**Affiliations, Leadership & Awards**

• American Society of Mechanical Engineers • Sertoma Freedom Essay Winner – *What Freedom Means to Me* •

• Sigma Phi Delta, Past Social Chair, Rush Chair, Class President • Welcome Week, Orientation Leader •

• Future Business Leaders of America, Past Vice President and three-time Colorado award recipient **•**