Benjamin Chia

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**EDUCATION**

University of California, Davis Expected Graduation: June 2020

*Bachelor of Science in Mechanical Engineering*

GPA: 3.44/4.00

• Engineering Coursework: Manufacturing Processes, Mechanics of Materials, Dynamics, Statics, Properties of Materials, Programming & Problem Solving

**EXPERIENCE**

Engineering Peer Advisor- Internship and Career Center, UC Davis Sep 2017-Present

• Review resumes and cover letters of engineering students while providing feedback.

• Represent ICC at engineering employer information sessions, out-reach events, & media campaigns.

• Participate in weekly career development meetings with supervisors to inform students of career opportunities in engineering.

Mechanical Engineering Intern- Regional San, Elk Grove, CA Jun 2017-Present

• Validate monthly, semi-annual, and annual discharge monitoring reports through analysis of quality assurance data systems (QA/QC).

• Automate data validation and entry of plant data pulled from various data servers utilizing VBA.

• Perform data collection from field servers to generate reports for EPA compliance.

Undergraduate Research Assistant- Sports Biomechanics Lab, Davis, CA April-August 2017

• Facilitated the experimental testing of bicycle inertia handling experiments with graduate student.

• Measured variance in bicycle handling control by shifting center of mass at different length/weights.

Data Analytics Intern- Molecular Medicine Research Institute, Sunnyvale, CA Jun-Aug 2015

• Wrote and presented detailed fifteen-page technical paper of experimental procedure and results on

gene mutations.

• Collected data and analyzed results using cAMP software and Excel software.

**PROJECTS**

InHealth, CalHacks 4.0 Project, UC Berkeley Oct. 2017-Present

• Design prototype of Chrome Extension using HTML, CS, and JS that reminds users to take breaks from computer use with various types of exercises based on user-selected preferences.

• Implement various API’s to personalize workout videos to individual users.

Personal Website (bjchia.github.io) April-August 2017

• Utilized HTML, CSS, & JS (self-taught) using Bootstrap framework to host website.

Crossbow Model & Gyroscope Model, Engineering Graphics in Design, UC Davis Feb-March 2017

• Modeled crossbow and gyroscope within Solidworks CAD Software.

• Checked for physical interference of individual parts to ensure the proper mating of final assembly.

**SKILLS**

* Programming Languages: Visual Basic for Applications (VBA), MATLAB, C
* Web Development: HTML/HTML5, CSS, JavaScript, Bootstrap Framework
* CAD Design Software: AutoCAD, SolidWorks
* Fluent in Mandarin (Bi-lingual)

**EXTRACURRICULAR ACTIVITIES**

* Theta Tau- Professional Co–Ed Engineering Fraternity, Historian 2016-Present
* Formula Racing Design Team, UC Davis 2016-2017

-Composites Sub-Team: Formed and casted carbon fiber, fiberglass, and plastic for vehicle body.

* Additional Interests: Basketball, Weightlifting, Reading, Shoes, UI Design