

Benjamin Chia

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EDUCATION

University of California, Davis
Bachelor of Science in Mechanical Engineering
GPA: 3.44/4.00

Expected Graduation: June 2020

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

SKILLS

- **CAD/CAM Design:** AutoCAD, SolidWorks, ESPRIT, G Code
- **Fabrication:** Lathes, Mills, Drill Presses, 3-D Printing, Strain/Stress Material Testing
- **Programming:** Visual Basic for Applications (VBA), Excel, MATLAB, C, Arduino
- **Web & Design:** HTML/HTML5, CSS, JavaScript, Bootstrap Framework, Adobe Photoshop, Illustrator
- Fluent in Mandarin (Bi-lingual)

EXPERIENCE

Mechanical Engineering Intern- Regional San, Elk Grove, CA June 2017–January 2018

- Developed a comprehensive data transfer tool to automate data validation and entry of 10,000+ points of plant data pulled from various data servers utilizing VBA.
- Validated monthly, semi-annual, and annual river discharge monitoring reports through data analysis of 1000+ points of quality assurance (QA/QC) data in Excel.
- Performed data collection from two field servers to analyze potential groundwater contamination 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 cwith camera set-up by shifting center of mass at different lengths and weights.

Data Analytics Intern- Molecular Medicine Research Institute, Sunnyvale, CA June–August 2015

- Conducted and presented fifteen-page technical paper of experimental procedure and results on AdenosineA2a gene mutations.
- Collected data and analyzed results using cAMP software and Excel.

Engineering Peer Advisor- Internship and Career Center, UC Davis September 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 to inform students of career opportunities in engineering.

PROJECTS

InHealth, CalHacks 4.0 Project, UC Berkeley October 2017–Present

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

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 February–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.

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