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