Benjamin Chia

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EDUCATION

University of California, Davis — Expected Graduation: June 2019
B.S. Mechanical Engineering
GPA: 3.4/4.0

- Engineering Coursework: Statics, Properties of Materials, Programming & Problem Solving, Engineering Graphics in Design-SolidWorks, Differential Equations

COMPUTER PROGRAMMING AND SIMULATION MODELS

Crossbow Model & Gyroscope Model, Engineering Graphics in Design — 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.

Personal Website (bjchia.github.io) — April – August 2017

- Utilized HTML, CSS, & JS (self-taught) using Bootstrap framework to host website.
- Developed well-versed proficiency with front-end web development.

InHealth, CalHacks 4.0 Project (In Progress) — Oct. 2017 – Present

- Designed prototype of Chrome Extension that reminds users to take breaks from computer use with various types of exercises based on user-selected preferences.
- Currently implementing various API's to personalize workout videos to individual users.

EXPERIENCE

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

- Automate data entry and parsing of company listings into filters for career opportunities utilizing Excel and VBA.
- Review resumes and cover letters of engineering students while providing feedback.
- Manage career workshops and inform students of career opportunities in engineering.

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

- 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.
- Simulate processes of in-construction facilities in AutoCAD to explain new plant operations.
- Perform data collection from field servers to generate reports for EPA compliance.

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

- Facilitate the experimental procedure and testing of routine bicycle inertia handling experiments with another graduate student.
- Measure variance in bicycle handling control by shifting center of mass at different length/weights.

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

- 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.

SKILLS

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

EXTRACURRICULAR ACTIVITIES

- Formula Racing Design Team, UC Davis — 2016-2017
  - Composites Sub-Team: Formed and casted carbon fiber, fiberglass, and plastic for vehicle body.
- Theta Tau- Professional Co–Ed Engineering Fraternity, *Historian* — 2016-Present
- Additional Interests: Basketball, Weightlifting, Reading, Shoes, UI Design