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, Classical Physics, Vector Analysis (Multivariable Calculus)

COMPUTER PROGRAMMING AND SIMULATION MODELS

Crossbow Model & Gyroscope Model — 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

Brian's Brain Game Simulation — March 2017

- Used C Language utilizing 2-D matrix/arrays to develop a game simulation of cellular automation.

EXPERIENCE

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

- Review resumes and cover letters of engineering students while providing feedback.
- Assist with industry-sponsored UC Davis events planned with the ICC.
- Manage career workshops and inform students of career opportunities in engineering.

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

- Prepare monthly, semi-annual, and annual discharge monitoring reports through analysis of routine QAQC data.
- Automate data validation and entry of plant data pulled from various data servers utilizing VBA.
- Analyze patterns within spans of data to determine compliance within government EPA water regulations.

Undergraduate Research Assistant-Moore Research Group — April 2017- Present
Davis, CA

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

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

- Researched the effects of three gene mutations on the Adenosine A2a cell receptor functioning.
- Wrote and presented detailed fifteen-page technical paper of experimental procedure and results.
- Collected data and analyzed results using cAMP software.

SKILLS

- Programming Languages: Visual Basic for Applications (VBA), MATLAB, C
- Web Development: HTML/HTML5, CSS, JavaScript
- 3-D Printing: KiSSlicer, Repetier-Host
- Fluent in Mandarin (Bi-Lingual)

EXTRACURRICULAR ACTIVITIES

- UC Davis Formula Racing — 2016-2017
  - Formed and casted carbon fiber, fiberglass, and plastic for vehicle body.
- Theta Tau- Professional Co–Ed Engineering Fraternity — 2016-Present
  - Historian: Photographed and processed professional portraits using Photoshop/Lightroom Software.
- Additional Interests: Basketball, Weightlifting, Reading, Shoes, UI Design