

# Benjamin Chia

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## EDUCATION

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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

## SKILLS

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- **CAD & Fabrication Design:** AutoCAD, SolidWorks, ESPRIT, G Code, 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

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**R&D Engineering Intern- Boston Scientific,** Los Gatos, CA

June–September 2018

**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 user bicycle handling with camera set-up when 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.

## PROJECTS

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**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.

**Gyroscope Design & Fabrication,** Manufacturing Processes, UC Davis

January 2018–Present

- Utilized end mills, drill press, lathes, and G code on Esprit CAM software to manufacture a functioning gyroscope

**Personal Website (bjchia.github.io)**

April–August 2017

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

## EXTRACURRICULAR ACTIVITIES

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Theta Tau–Professional Co-Ed Engineering Fraternity, Industry Outreach Rep.

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