

# Jason Joshua

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A passionate, energetic man who is willing to learn and work on creative yet out-of-the-box innovation. Experienced in both forging strong teamwork between individuals as team player.

## WORK EXPERIENCES

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### **Top-Shelf Fixtures, Chino, CA, (09/19 - Present) – Mechanical Designer (Temporary)**

*A company that designs and in-house manufactured custom display fixtures for grocery stores, clothing store, etc.*

- Assisted design engineers to brainstorm and develop models based on client's needs by using hand sketches, 3D CAD modelling software (Solidworks, Inventor), and prototypes
  - Utilizing sheet metals stamping, bending, tube bending and welding manufacturing
- Generated technical drawings and explaining design concepts to be mass produced by the manufacturing plant
- Utilized knowledge of fabrication machines, engineering practices, materials to build CAD models, drawings, BOMs
- Managing and utilizing product data management *vault* to allow ensure files are accessible efficiently in the company
- Coordinated with business sides, manufacturing, engineering to revise and redevelop models

### **Diagnologix LLC, San Diego, CA, (6/18 – 3/19) - Mechanical Design Engineer Intern/Part-time**

*A Biotech startup that utilizes MicroBubble (MB), an innovative cell isolation technology, on developing innovative tools and products for unmet medical needs. Awarded with multiple Phase II SBIR Grants, totaling more than USD \$1MM.*

- Designed and rapid prototyped medical grade automated system for MB isolation
  - Utilized Solidworks, 3D printer (FDM & SLA), CNC Machine to prototype for NIH and NCI
- Integrated Arduino to automate a closed system MB blood isolation technology
- Utilized FEA to approximate lifetime of gear and device's mechanical system
- Coordinated with suppliers and vendors from internationally (Taiwan, China) to obtain prototyping parts.
- Generated technical specifications, drawings, BOMs to be used by machine shops, plastic injection molding companies.

### **University of California, San Diego, San Diego, CA, (1/18 – 3/18) – Machine Shop Teaching Assistant**

*Mechanical Engineering Department*

- Taught 20 students to brainstorm and develop multiple prototypes utilizing 3D printer and CNC Mill, Milling, Lathe, etc.
- Collaborated with the lab manager to maintain and fix the Fabrication Machines by recalibrating machines, refabricate parts for broken machine, purchasing tools and extra parts from suppliers
- Remodeled the class system by making lab procedures, videos, worksheets, quizzes to be more efficient

## EDUCATION

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### **University of California, San Diego, (03/19) – B.S Mechanical Engineering and Minor in Business Administration**

- Diablo Valley College M.K Fives Academic Scholarship Recipient (May 2016)

## EXTRACURRICULAR ACTIVITY

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### **San Diego Indonesian Association, (06/18 – 06/19) – President**

*UCSD's official Indonesian student association with over 200 members*

- Managed 2018 primary project of providing Indonesian student with future career platform in the United States or Indonesia
- Increased number of events executed per quarter by streamlining the existing process in the organization for event planning
- Implemented feedback from club members to offer more events that are favored by the club members
- Planned and managed several fundraisers over the course of the quarter to raise USD \$5,000 which was used in several new events to promote inclusion among new and old club members

## OTHER RELEVANT INFORMATION

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- **Computer:** Proficient in Solidworks, Inventor, Fusion 360 (FEA, 3D Modelling), 3D Print (SLA/FDM), Arduino, Mechatronics
- **Languages:** Bahasa Indonesia (Native), English (Fluent), Mandarin Chinese (Fluent)
- **Machining:** CNC machine, Milling, Lathe, Band-saw