

MICHELLE TRUONG

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EDUCATION

UNIVERSITY OF CALIFORNIA - DAVIS | SEP 2015 - DEC 2019

B.S IN MECHANICAL ENGINEERING, MINOR IN TECHNOLOGY MANAGEMENT

MAJOR COURSEWORK: STATICS, MECHANICAL DESIGN, MANUFACTURING PROCESSES, MATERIAL MECHANICS, DYNAMICS, ELECTRONIC CIRCUITS, CONTROL SYSTEMS, THERMO-FLUID DYNAMICS, HEAT TRANSFER, MECHATRONICS

MINOR COURSEWORK: TECHNOLOGY MANAGEMENT, MANAGING INFORMATION TECHNOLOGY, SUPPLY CHAIN MANAGEMENT

WORK EXPERIENCE

APPLE | SYSTEM RELIABILITY ENGINEER | JAN 2020 - CURRENT

- Lead and execute detailed reliability test plans on new Apple technologies during R&D including Mechanical Stress Tests, Shock/Drop/Vibration Testing, Environmental Testing to provide recommendations to design teams
- Applying reliability theory and a variety of reliability test methods and analyses across product lifecycles
- Developing new reliability tests procedures and specifications based on novel Apple product requirements
- Facilitate design review FMEA sessions with cross-functional teams to drive reliable design choices and improve validation test planning

INTEL CORPORATION | FAILURE ANALYSIS ENGINEERING INTERN | JUNE 2019 - SEPT 2019

- Researched and developed (R&D) techniques to rework and reball next generation CPU products by planning DOEs using various tools (e.g. optical microscopy, SEM, 2D X-Ray, CSAM, solder-ball rework and re-ball)
- Conducted fundamental material analysis studies on low-temperature solder paste for surface mount technology
- Performed failure analysis on customer returned electronic packages to assess quality and/or reliability risk

UC DAVIS CAPSTONE PROJECT | MECHANICAL ENGINEER | JAN 2019 - JUNE 2019

- Designed low-cost autonomous urine output measurement medical device compatible with urinary catheters to decrease nurse workload, improve human error, and detect acute kidney injuries to reduce ICU patient mortality
- Led rapid prototyping in laser cutting, 3D printing, and programming Arduino with time-of-flight distance sensor

JOHNSON & JOHNSON | MANUFACTURING ENGINEER CO-OP | MAR 2018 - SEPT 2018

- First co-op at Vacaville site to earn Lean Six Sigma Green Belt Certification - led transportation flow project for GMP production environment for 42% reduction in time & required labor waste saving 128 projected hours annually
- Managed shipping qualification project to remove material & labor waste and reduced implementation cost by \$285,000 with estimated savings of \$20,000
- Achieved 93% improvement in laboratory data analysis and KPI generation for cycle time, release rate & part yield

QUALIFICATIONS

TECHNICAL SKILLS

Manufacturing & Prototyping

- Experienced in 3D Printing, Arduino, laser cutting, and general machining tools (e.g. mill, lathe, etc)
- 3D CAD Design in SolidWorks

Computer Systems

- Coding & modeling in MATLAB, Python, C++
- Laboratory Testing using LabVIEW, NI MyDAQ, Signal Generators, Oscilloscopes

Data Analytics

- Proficient in Excel, Minitab & R Programming

BUSINESS SKILLS

- Creative mindset determined to help companies become positive & competitive organizations
- Flexible team player in fast-paced environment with strong communication skills
- Proficient in Microsoft & Adobe Suites (Word, Excel, SharePoint, Visio, PowerPoint, PhotoShop, Illustrator)

Project: Analysis of Subway's Business Challenge

- Led team of 7 in giving executive presentation tackling Subway's business problems using frameworks (e.g. root cause analysis, system maps, balance scorecard, etc)

ACTIVITIES

THETA TAU, ENGINEERING FRATERNITY | RECRUITMENT CHAIR | JAN 2017 - JUNE 2017

- Developed and led spring recruitment for 150+ prospective candidates from College of Engineering under \$1200