

Thomas Chengattu

GRADUATE MECHANICAL ENGINEER

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Education

University of California, Berkeley

Berkeley, CA

MASTERS IN ENGINEERING | MECHANICAL ENGINEERING

May 2018

- Concentration in Product Design

Arizona State University

Tempe, AZ

BACHELOR OF SCIENCE IN ENGINEERING | MECHANICAL ENGINEERING

May 2017

- New American University Provost Scholarship Recipient

GPA 3.79

Technical Skills

CAD /CAM /CAE Solidworks, Rhinoceros, Autodesk Fusion, Cut3d, VCarve Pro, Ansys, Ansys Fluent

Programing Python, Matlab, Latex, Arduino, LabVIEW

Miscellaneous Microsoft Office Suite, JMP, Avizo, PSpice

Experience

Intel Corporation

Chandler, AZ

SUPPLY CHAIN ENGINEER FOR ASSEMBLY EQUIPMENT & MEDIA

May 2016 - Aug 2017

- Managed capital equipment with multiple suppliers, and completed 20 quality improvement projects.
- Leveraged negotiation skills to save \$10,000 for machine purchase by bundling free upgrade with equipment development
- Used engineering knowledge to drive supplier working group meeting and facilitate timeline for technology development
- Influenced internal and external stakeholders for managing deadlines effectively and prioritizing critical tasks

Arizona Center for Algae Technology and Innovation

Gilbert, AZ

FIELD SITE ASSISTANT

May 2015 - Aug 2015

- Conducted work with utmost care to prevent contamination of algae samples, and ensure clean testing sites
- Respond proactively to adhere to the needs of the Polytechnic Algae Labs
- Developed practical skills to safely remove contaminated water, fix pumps, and manage inventory for research

Projects

Chawla Research Group ASU

UNDERGRADUATE RESEARCH ASSISTANT

Sept 2016 - April 2017

- Leveraged statistical analysis and computer vision techniques to identify relevant features in images
- Used three dimensional X-ray tomography study of corrosion-fatigue crack growth behavior in 7XXX-series Al alloys
- Advanced a study of precipitate growth in Al-Cu alloys using three dimensional transmission X-ray microscopy

Theta Tau Professional Engineering Fraternity

PROJECT CHAIR: ARCADE GAMING CABINET

Jan 2016 - Sept 2016

- Researched, developed, engineered, and manufactured a unique arcade cabinet design with minimal budget
- Designed and constructed a reliable machine, with sufficient heat transfer, using first principle thermal fluid models
- Engineered specific solutions for given requirements to hone in on CAD & CAM skills
- Negotiated pricing and terms with artist for panel designing, with printing shop for vinyl, along with time at Techshop

Camp Inquizit Science Camp

STARTUP CO-FOUNDER

Aug 2015 - Dec 2015

- Identified and gathered needs within the community based on extensive market research
- Executed and delegated multiple tasks to promote, diversify and better entice our science camps to customers
- Generated roughly \$400 in revenue, and received positive feedback from customers on this venture

Relevant Course Work

Fall 2017 Experiential Advanced Control Design

Graduate

Fall 2017 Human Centered Design

Graduate

Fall 2016 Applied Computational Fluid Dynamics

Undergraduate

Fall 2016 Internal Combustion Engines

Undergraduate

Spr.2016 Thermofluids

Undergraduate

Spr. 2016 Principles of Mechanical Design

Undergraduate

Distinctions

• Intel division recognition award

Oct 2016

• Six Sigma Greenbelt

May 2016

• ASU Dean's List Honors

7x Recipient

• Theta Tau Student Member Award

Spring 2015