

Thomas Chengattu

GRADUATE MECHANICAL ENGINEER

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Education

University of California, Berkeley

MASTERS IN ENGINEERING | MECHANICAL ENGINEERING

- Concentration in Product Design

Berkeley, CA

May 2018

GPA 3.52

Arizona State University

BACHELOR OF SCIENCE IN ENGINEERING | MECHANICAL ENGINEERING

- New American University Provost Scholarship Recipient

Tempe, AZ

May 2017

GPA 3.79

Experience

Intel Corporation

SUPPLY CHAIN ENGINEER FOR ASSEMBLY EQUIPMENT & MEDIA

Chandler, AZ

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
- 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

FIELD SITE ASSISTANT

Gilbert, AZ

May 2015 - Aug 2015

- Fixed and replaced 1/3 of the drainage pipes involved in safely removing contaminated pond samples
- Daily tasks involved cleaning the photobioreactors, and fixing clogged water pumps

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

Projects

Developing an Optimal Controller for Electric Vehicle

GRADUATE CONTROLS - CLASS PROJECT

Dec 2017

- Used the MATLAB environment along with Model Predictive and Dynamic Programing strategies to develop controllers
- Challenges involved addressing the nonlinear nature of the power-train efficiency, and incorporating regenerative braking

Vanguard - Martian Space Gloves

GRADUATE CAPSTONE PROJECT

Sept 2017 - Current

- Applied human-centered design techniques to identify customer needs and create quantitative goals
- Prototyped numerous glove components to identify potential consumer issues with repetitive use

Chawla Research Group ASU

UNDERGRADUATE RESEARCH ASSISTANT

Sept 2016 - April 2017

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

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

Relevant Course Work

Distinctions

Fall 2017 Experiential Advanced Control Design

Graduate

• Intel division recognition award

Oct 2016

Fall 2017 Human Centered Design

Graduate

• Six Sigma Greenbelt

May 2016

Fall 2016 Applied Computational Fluid Dynamics

Undergraduate

• ASU Dean's List Honors

7x Recipient

Fall 2016 Internal Combustion Engines

Undergraduate

• Theta Tau Student Member Award

Spring 2015

Spr.2016 Thermofluids

Undergraduate

Spr. 2016 Principles of Mechanical Design

Undergraduate