

AISHWARYA PILLAI

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Objective

Mechanical Engineering graduate student at the University of Minnesota seeking internship opportunities for summer 2018.

Education

Course	University/Board	Year of graduation	GPA	GPA Scale	Relevant Coursework
Master of Science in Mechanical Engineering	University of Minnesota Twin Cities	Expected 2019	3.37	4.0	Fluid Mechanics, Thermodynamics, CAE, Production Planning
Bachelor of Engineering (Mechanical Engineering)	Mumbai University	May 2017	8.76	10	CAD, Heat Transfer, Refrigeration and Air Conditioning

Skills

Programs: **Solidworks, Catia V6 R2013x**, MATLAB, AutoCAD, ANSYS

Computer Languages: C, C++, Java, HTML

Machining Tools: **CNC, Lathe**, grinders, drill press.

Work Experience

Graduate Teaching Assistant for a course on Heat Transfer at the University of Minnesota

(Jan 2018)

Academic Projects

Developing a Learning tool for Undergraduate students in Thermodynamics

(Sep - 2017)

- Developed a learning tool to calculate COP of refrigeration, state values and plot a pressure-enthalpy curve for a single stage vapor compression refrigeration cycle on Maple 2016.

Final Year Undergraduate Project on Ultrasonic Fracture Detector

(2016-2017)

- Designing a portable ultrasonic fracture detector based on the concepts of weld testing and musco-skeletal ultrasound.
- Developed a 3D model of the prototype on Solidworks including assembly of all components, and prepared a comprehensive report on the research, analysis and results involved.**
- Programs used for testing designing and report preparation: Solidworks/Catia V5, Wave3000 and MS Word.
- Team Size: 2

Project on Obstacle avoiding robot

(2015-2016)

- A mechatronics project using an Ultrasonic transmitter-receiver and Arduino board that acts as a non-contact obstacle avoider.
- Programs used: Arduino IDE, C++

Training and competitions

- Catia V6(Basics and Advanced) training from TATA Technologies. (2015-2016)
- 'Aakruti' "Smart idea for smart cities" competition using 3DPLM software Solidwords2015. (2015)

Extra-Curricular and Community Services

- Taught for the Teach India program, by Times of India and British Council (Carpe-Diem Cycle-2015)
- Students Council member for the year 2015-2016.
- Delegate of India in SPECPOL Committee Model United Nations 2014.
- Winner of the University Debate Competition (Cultural Fest-Sojourn-2014).
- Published a poem in the "All India Poetry Competition 2015."