

Jade Chongsathapornpong

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Education

Massachusetts Institute of Technology

September 2019 – June 2023

Bachelor of Science

Physics, minor in Mechanical Engineering

Coursework:

- Electricity and Magnetism
- Mechanics and Materials I
- Multivariable Calculus

Experience

UC Santa Barbara, Materials Research Laboratory

June 2018 – August 2018

Research Intern

- Measured and analyzed trends in structural and electronic properties of systematically strained epitaxial films.
- Developed Python scripts to process and visualize data from instruments such as X-ray diffractometers.

Bates Research and Engineering Center

December 2019 – January 2020

Undergraduate Researcher

- Automation and data acquisition for research oxygen-lean biomass torrefaction reactor.

Exel Orbital Systems, Inc.

August 2018 – September 2018

Intern

- Studied frequency response behavior in driven coils and nearby samples for a novel electromagnetic sensor.

Proficiencies

- Computer Aided Design (Solidworks)
- Technical Writing, Video Editing
- Materials Characterization
- Computer Graphics, 3D Modeling (Blender)
- Public Speaking and Presentation
- Simulation (ANSYS - FEA, CFD)

Activities

MIT Solar Electric Vehicle Team

September 2019 – Present

- Layup and use of composite parts. Also responsible for mechanical design, prototyping, and integration of vehicle components such as canopy latches and hinges.

OceanForesters/University of Southern Mississippi

March 2017 – Present

- Edit proposals, create concept art and contribute to design discussion for a team improving aquaculture technologies.
- Worked on proposals yielding \$0.5M in funds from ARPA-E and finalist status in an MIT Climate CoLab contest.

Terrascope

September 2019 – December 2019

- For a course in solving complex problems, collaborated with approximately 40 students to develop proposals for improving Puerto Rico's storm response and recovery, presented to expert panelists and public.

Oxnard HS Robotics

November 2017 – August 2019

- Conducted background research, design, simulation and testing for robot chassis and manipulators.
- Team competed at FIRST Championship Houston in its first year.

Next Make

September 2019 – Present

- Crafting a soft lighting panel from scavenged electronics and optics.

Awards

The Gates Scholarship

June 2019

California Academic Decathlon

September 2017 – March 2019

- Tied 1st in Science and 2nd in Mathematics overall at State competition, against National champion team members.