

Selasie Tse

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EDUCATION

BS, Mechanical Engineering | *University of Texas at Austin*

May 2024

Elements of Computing Certificate

GPA: 3.406

Relevant Courses: Dynamics | Solids | Programming and Engineering Computational Methods | Differential Equations with Linear Algebra | Thermodynamics | Vector Calculus | Elements of Computer Programming | Fluid Mechanics

WORK EXPERIENCE

Texas Inventionworks | *University of Texas at Austin*

May 2021 – Present

President

- Managed staff, daily operations, and internal projects of 10 labs dedicated to the development of personal and academic projects through various manual and digital fabrication techniques.
- Communicated with company representatives visiting the university about services and resources delivered to the students and campus research through the laboratories as well as the value of exposure to the space.

Student Technician

- Operated and repaired a variety of manufacturing and prototyping machines including SLA and FDM 3D printers, CNC machines, laser cutters, 3D scanners, workshop and machine shop tools, and soldering equipment.
- Provided training, advice, and consultation to 100+ students and faculty on their engineering projects regarding design in SOLIDWORKS or Autodesk Fusion 360 and prototyping using the resources available in our labs.
- Developed trainings used by 1000+ students for the use of the tools and machines available in the makerspace.

UT RecSports | *University of Texas at Austin*

Feb. – May 2021

Activity Supervisor

- Operated the recreational sports system to handle tasks such as member identification and equipment checkout.
 - Oversaw activities at the outdoor recreational sports facilities used by 200+ students and staff daily.
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LEADERSHIP

Corporate Liaison | *National Society of Black Engineers*

June 2022 – Present

I acted as the main point of contact between companies interested in supporting the National Society of Black Engineers and the UT Austin chapter of the organization.

- Coordinated with representatives from various companies to ensure that they provide a rewarding and impactful experience to our members.
- Maintained relationships with companies to assist our members in taking advantage of the opportunities made available to them.

Pick and Place machine | *Texas Inventionworks*

June 2021 – Present

A component placement system designed to automate the placement of surface mount devices on PCB boards.

- Developed 30+ CAD models of all the parts required for the device's operation in SOLIDWORKS.
- Configured Marlin firmware for the control board to operate the motors and peripheral components.
- Manufactured, assembled, and prototyped the machine's mechanical and electrical subsystems.

Steering Sub-team | *Longhorn Racing (Solar)*

Aug. 2020 – June 2021

A student organization designing and building a solar-powered racing vehicle to compete in a national competition.

- Modeled components of the steering and suspension subsystems in SOLIDWORKS.
- Manufactured various parts of the steering assembly with a CNC machine.
- Coordinated with other sub-teams to ensure smooth integration with other systems in the rest of the car.

SKILLS & INTERESTS

- **Design Skills:** SOLIDWORKS, Autodesk Fusion 360
- **Technical Skills:** Laser cutter operation and repair, FDM 3D printer operation and repair, SLA and SLS 3D printing, CNC machining, Workshop tools.
- **Programming Skills:** Python, MATLAB, HTML, CSS, JavaScript.
- **Interests:** Image and video editing, soccer, music, dance, ping pong, basketball, animation, graphic design.