

Pongpak Techagumthorn

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EDUCATION

- **University of Washington Bothell** Bothell, WA
B.S in Physics June 2021
 - **Dean's List:** Spring 2020
 - **Awards:** Awarded Excellence in Experimental Physics by Dr. Subramanian Ramachandran on May, 28th 2021
 - **Relevant Courses:** Thermal Physics, Statics, Dynamics, Intro to 3D modeling and analysis, Computational Physics, Condensed Matter Physics, Mathematical Physics, Experimental Physics, Electromagnetism, Astrophysics, Quantum Mechanics

SKILLS

Software: Solidworks, Autodesk Inventor, Autodesk Fusion 360, Autodesk HSM, SketchUp, Microsoft Office, LTSpice

Programming Languages: Python, MatLab, LaTeX, Java, HTML, CSS

Machines: 3D Printer, Laser Cutter, Lathe, Mill, Bandsaw, Drill Press, CNC Milling, MIG Welding

EXPERIENCE

- **UW Bothell Makerspace** Bothell, WA
Staff Member Autumn 2019 - June 2021
 - Provided technical consultations for hundreds of projects with 3D printers, laser cutters, & CNC routers
 - Developed standard operating procedures and safety manuals and protocols for equipment
 - Created and implemented training materials for UW Bothell students, faculty, and staff
 - Led group orientation sessions for students and community partners
- **TrickFire NASA Robotic Mining Competition Team** Bothell, WA
Mechanical Design Lead Summer 2017 - April 2021
 - Designed and manufactured the drivetrain of the mining robot
 - Utilized Solidworks CAD for machine design and manufacturing file preparation
 - Evaluated overall robot design using Solidworks FEA simulations
 - Machined all necessary custom drivetrain parts on mills and lathes
 - Integrated the mechanical systems with all software and electrical systems

PROJECTS

- **Semiconductor Materials for Ultra High Frequency Transistors** April 2021 - June 2021
Capstone
 - Performed dozens of LTSpice simulations across five different transistor models with various parameters
 - Developed test procedures to compare ultra high frequency behavior of semiconductor materials
 - Authored and Presented a scientific paper on the findings of this project
- **UW Bothell ASME Hackathon** 2017
Volunteer
 - Hackathon challenged participants to optimize campus infrastructure and integrate IoT devices
 - Oversaw the purchasing of all necessary tools and materials for participants to prototype
 - Ensured participants were using tools and machines in a safe manner