Pongpak Techagumthorn

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Education

- **University of Washington Bothell** — Bothell, WA
  B.S in Physics — *(exp.) 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
Programming Languages: Java, HTML, CSS, LaTeX , Python, MatLab
Machines: 3D Printer, Laser Cutter, Lathe, Mill, Bandsaw, Drill Press, CNC Milling, MIG Welding

Experience

- **UW Bothell collaboratory (Formerly UW Bothell Makerspace)** — Bothell, WA
  Student staff member — *Autumn 2019 - Present*
  - Trained UW Bothell students, faculty, and staff on equipment usage and safety protocols
  - Provided technical consultation for makerspace user projects
  - Developed safety manuals and standard operating procedures for makerspace equipment
  - Led small and large group orientation sessions for incoming students and community partners
- **UW Bothell TrickFire Robotics Team** — Bothell, WA
  Mechanical Design Lead — *Summer 2017 - April 2021*
  - Worked in a medium sized team setting to design and manufacture a robot for NASA's annual Robotic Mining Competition
  - Utilized Soldiworks CAD software to design robot and prepare files for manufacturing
  - Ran basic Solidworks FEA simulations to evaluate robot design
  - Employed manufacturing skills to machine robot parts on manual mills and lathes
  - Ensured interoperability of the mechanical system with electrical and software systems

Projects

- **Semiconductor Materials for Ultra High Frequency Transistors** — April 2021 - Present
  UW Bothell
  - Developed transistor models to run simulations of transistor devices in an LTSpice environment
  - Developed test procedures to compare ultra high frequency behavior of semiconductor materials
  - Authored a scientific paper on the findings of this project and presented the findings at the UW Bothell Spring 2021 Capstone Colloquium
- **UW Bothell ASME Hackathon** — 2017
  UW Bothell
  - Worked with the UW Bothell ASME Chapter to run a Hackathon revolving around the campus garden
  - Oversaw the purchasing of tools and materials for the hackathon
  - Ensured hackathon participants were using tools and materials in a safe manner