

# Pongpak Techagumthorn

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## EDUCATION

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- **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

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**Software:** Solidworks, Autodesk Inventor, Autodesk Fusion 360, Autodesk HSM, Microsoft Office, Jira, Confluence, Infor ERP, GitHub, LTSpice

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

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

## EXPERIENCE

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- **Picnic Works** Seattle, WA  
*Test Technician I & Food Supply Chain Lead* September 2021 - Present
  - Develop test fixtures and procedures for evaluating electromechanical devices
  - Utilize Solidworks CAD and 3D printing for rapid prototyping of test fixtures
  - Respond to emergency engineering support requests for on site Picnic Pizza Station system failures
  - Facilitate regulatory testing of the Picnic Pizza Station
  - Perform final quality assurance checks on the Picnic Pizza Station
  - Manage food supply chain for ingredients used to test the Picnic Pizza Station
  - Demonstrate the Picnic Pizza Station to potential business partners and customers
  - Provide on site support for the Picnic Pizza Station at customer locations
- **Chili Basil Thai Grill** Lynnwood, WA  
*Kitchen & Maintenance Staff* September 2012 - September 2021
  - Maintained internal network and provided technical support for computers
  - Performed kitchen tasks such ingredient prep, cooking, and dish-washing
  - General repair and maintenance of restaurant and restaurant equipment

## PROJECTS

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- **Automated Stepper Motor Torque Testing Fixtures** May 2022 - Present  
*Test Fixtures & Hardware*
  - Designed and manufactured test fixtures to automatically measure peak stepper motor torque in several Picnic Pizza Station subsystems
  - Implemented custom python scripts for complex data analysis of raw data output from strain gauge
  - Developed testing protocols for evaluating new stepper motors for use on future Picnic Pizza Station revisions
- **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