

# Pongpak Techagumthorn

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## EDUCATION

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- **University of Washington Bothell**  
B.S in Physics

**Bothell, WA**  
June 2021

## SKILLS

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**Software:** NI VeriStand, HBM Perception, PCAN Explorer, Solidworks, Altium, Microsoft Office, Jira, Confluence, LTSpice, Python

**Hardware:** NI cRIO, NI cDAQ, HBM Genesis DAQ

**Manufacturing:** SMD Soldering, PCB Rework, CNC Machining, rapid prototyping

## CERTIFICATIONS

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NFPA 70E Arc Flash and Electrical Safety, Overhead Crane Rigging and Operation, WHA Level 2 Hydrogen System Design and Safety, AED and First Aid

## EXPERIENCE

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- **ZeroAvia** **Everett, WA**  
Electric Propulsion System Test Engineer December 2024 - Present
  - Design and assemble low and high voltage interconnects in accordance with IPC/WHMA-A-620 for ZA601 motor and inverter
  - Establish interface control documents for current gen ZA601 and next gen ZA2000 inverters and motors
  - Design and manage safety systems for high voltage, high power test stations for ZA150 fuel cell and ZA601, ZA2000 motor and inverter
  - Manage and maintain medium power 240kW back-to-back ZA601 inverter test stand used for experimental testing of hardware and software
  - Perform environmental and HALT testing on ZA601 inverter in accordance to RTCA-DO160 for airworthiness certification
  - Collaborate with leading industry suppliers on next generation aerospace interconnects
- Electric Propulsion System Test Technician December 2022 - December 2024
  - Developed and assembled test fixtures for evaluating ZA601 electric propulsion inverters and motors
  - Designed and built automated test systems for component level production testing for the ZA601 inverter
  - Performed component level rework in accordance with IPC-J-STD-001 on ZA601 inverter and motor
- **Picnic Works** **Seattle, WA**  
Test Technician I & Food Supply Chain Lead September 2021 - October 2022
  - Developed procedures and test fixtures utilizing rapid prototyping to evaluate electromechanical devices
  - Performed final quality assurance checks on the Picnic Pizza Station
  - Managed food supply chain for ingredients used to test the Picnic Pizza Station

## PROJECTS

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### • **Low Power 10kW Static Load Test System**

- ZeroAvia - Test Fixtures & Hardware Dec 2022 - Present
  - Designed and manufactured a high voltage low power test platform for evaluating new hardware and software for ZA601 inverter
  - Developed a robust interlock and safety system to ensure safe operating conditions for users
  - Reengineered various times to become a very flexible test platform used for ZA601 and ZA2000 inverter testing, ZA150 compressor testing, and environmental and HALT testing