

Pongpak Techagumthorn

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EDUCATION

- **University of Washington Bothell** **Bothell, WA**
B.S in Physics June 2021

SKILLS

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

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

- **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

- **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