

YASH PATEL

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SUMMARY

Hands-on, multidisciplinary hardware systems engineer building tightly integrated, test-informed, and physics-grounded designs. At Phantom Works, led design, development, and qualification of first-of-a-kind hardware, aligning cross functional teams across design, test, and analysis. Known for systems thinking, initiative, and clear communication that drives real-world execution. Thrive where complexity meets collaboration by relying on first principles, fast iteration, and a bias toward functional clarity.

EDUCATION

Arizona State University – Master of Science in Electrical Engineering	Expected December 2026
University of Houston – Bachelor of Science in Electrical Engineering	December 2020

WORK EXPERIENCE

P3 Electrical Engineer - Advanced Technology Applications <i>Phantom Works Space - Boeing Defense, Space & Security</i>	February 2021 – Current Kent, WA
<ul style="list-style-type: none">• Led a cross-functional team to deliver a fully integrated prototype system for manufacturing readiness validation.• Designed in-house QA systems using low-cost COTS components, automating tests and improving consistency while reducing manual labor.• Developed and integrated a vision system, enabling low-risk performance testing and enhancing QA capabilities.• Conducted rapid hands-on electrical troubleshooting using oscilloscopes, logic analyzers, and DAQ systems during subsystem bring-up and validation phases.• Partner with industry and mission stakeholders to develop advanced test capabilities for first-of-a-kind space hardware.• Collaborated cross-functionally with mechanical, survivability, contamination, systems, production, and test engineering teams to deliver tightly integrated and validated products.• Developed and automated test scripts using Python and LabView to streamline system validation processes.• Authored test plans to ensure compliance with spaceflight-grade reliability standards (SMC-S-016, AIAA-S112).• Liaised with government customers to adapt hardware and test plans to rapidly evolving mission requirements.• Led capital improvement projects, driving long-term value and infrastructure modernization.	
Intern - Electrical System Design Engineer	May 2020 – August 2020
<ul style="list-style-type: none">• Supported the Satellite Host/Launch team by drafting verification plans, electrical requirements, and power budgets; contributed to wiring design and component compatibility reviews.	
AppleCare Technical Advisor <i>Apple Inc.</i>	2016 – 2020 Houston, TX

SKILLS AND ABILITIES

Electrical Debugging - Oscilloscopes, Logic Analyzers, DAQ Systems | CAD - CATIA, AutoCAD | Python | C++ | MATLAB | LabView | Data Acquisition - NI DAQmx, LabJack | PCB Design & Troubleshooting | Machine Vision - CNNs, ImageJ, Detection, Tracking and Classification | Multisim | PSpice | FRED Optical Simulation

PROJECTS

- Spacecraft Lighting Network System** | Spring-Fall 2020 - NASA JSC
- Prototyping of an Analog Television Transmitter** | Spring 2019 - University of Houston
- Project Lead - Space WiFi Mesh Network** | Fall 2018 - NASA JSC