Jordan Michaels

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Education

Carnegie Mellon University | *GPA: 3.81* — *Sep 2023 - Jun 2025*
M.S. | *Computer Systems* — *Pittsburgh, PA*

University of Texas at Austin | *GPA: 3.97* — *Aug 2018 - May 2023*
B.S. | *Software Engineering* — *Austin, TX*
Minor | *Cognitive Science*

Experience

Platform Engineering Intern — *May 2024 - Aug 2024*
Bitstream Networks — *Denver, CO*

- Designed and deployed a real-time telemetry pipeline for edge network routers using Go and Protobuf.
- Developed high-throughput sync agents across distributed nodes using gRPC and Redis streams.
- Created Verilog modules to validate MAC-level packet timings on custom FPGA NICs for load testing.

Firmware Intern — *Jun 2023 - Sep 2023*
Atlas Devices — *Boston, MA*

- Implemented drivers and diagnostics for a custom USB audio subsystem on a Cortex-M7 platform.
- Built Python automation scripts for multidevice firmware upgrade pipelines and JTAG verification.
- Validated board-level signal integrity with oscilloscope captures and SPI timing analyzers.

Projects

Lunar Navigation Bot (Autonomous Systems)

- Simulated and field-tested a planetary rover using Jetson Nano, LiDAR, and YOLOv6 for rock classification.
- Used MQTT to coordinate movement commands with a relay station over intermittent mesh networks.
- Placed among top finalists in the **SpaceBot 2023 Challenge**.

SpeechSync Streamer (Real-Time Communication)

- Created a voice chat system with on-the-fly transcription and translation via Whisper + MarianMT.

Portable Audio Amplifier Kit (Hardware Design)

- Designed a 7W audio amplifier with integrated thermal shutdown and overcurrent protection.

Awards

SpaceBot 2023 Finalist

- Received for the Lunar Navigation Bot project among 200+ submissions.

Publications

Taylor Chen, **Jordan Michaels**, Emily Zhang, "Lightweight Neural Pruning for Speech Tasks on Low-Power Devices", *ACM UbiComp*, 2024.

Jordan Michaels, Alice Smith, "Optimizing Edge AI Workflows for Low-Latency Inference", *IEEE Edge Computing*, 2023. **Best Paper Award**

Skills

Expertise: Edge Computing, Network Protocols, Robotics Systems, FPGA Toolchains, Embedded Audio, Multilingual NLP, System Monitoring, CI/CD Automation
Software: PyTorch, TensorFlow Lite, OpenCV, KiCad, Docker, Kubernetes, Zephyr RTOS, Vivado, gRPC, Git, JIRA, WireShark, Linux
Languages: Python, C/C++, Rust, Bash, MATLAB, VHDL, Verilog, TypeScript