

# 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