

Rohan Menon

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A Ph.D. student in [Signal Kinetics](#) at the [MIT Media Lab](#) with a focus on embedded devices, wireless sensing/communication and networking who loves working on hard problems in fast-paced teams.

Education

Massachusetts Institute of Technology

Sep 2024 - Present

Ph.D. in Electrical Engineering and Computer Science

University of Washington

Sep 2021 - Dec 2023

B.S. Electrical and Computer Engineering

Experience

Graduate Researcher in [Signal Kinetics](#) at the [MIT Media Lab](#)

Sep 2024 - Present

- Working on batteryless underwater sensing using acoustic backscatter

Embedded Hardware and Software Engineer at [WaveWorks](#)

Mar 2024 - Sep 2024

- Designed a protocol for their custom, ultra-low-power wireless modems to support a range of applications, from infrequent sensor data to real-time streaming
- Wrote firmware and built software tools to make FPGA testing faster and easier
- Established a simulated RTL CI pipeline for our FPGA and ASIC design team

Undergraduate Researcher at the [UW Sensor Systems Laboratory](#)

Feb 2022 - Mar 2024

- Developed embedded firmware for version 6 of [WISP](#), a platform for batteryless, wirelessly powered sensors maintained by the lab
- Built a cross-platform React-based desktop app to collect and visualize data from the platform
 - R. Menon, R. Gujarathi, A. Saffari, J. Smith, "[Wireless Identification and Sensing Platform Version 6.0](#)", EnsSys 2022
- Built a ray-tracing based, GPU-accelerated, [simulator for modeling RF propagation](#) and networking between mobile agents
 - D. Ta, R. Menon, J. Taggart, A. Tettamanti, S. Feaser, P. Torrado, J. Smith, "[Roaming DTN: Integrating Unscheduled Nodes into Contact Plan Based DTN Networks](#)", CCAA 2023

Skills

Hardware

- Digital and analog circuit design
- PCB design, rapid prototyping
- Cellular, LoRa, RFID communication

Software

- Python, Rust, C/C++
- Embedded firmware
- Frontend dev (JS/TS, React, web design)