

# Rohan Menon

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An engineering student with a focus on embedded hardware, software, and wireless technologies who thrives on learning in fast-paced, collaborative environments.

## Education

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- 2021-Present **University of Washington in Seattle · First year**  
College of Engineering (intended electrical engineering)
- 2017-2021 **Niskayuna High School**

## Research

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- 2022-Present **[UW Sensor Systems Laboratory with Prof. Joshua Smith](#) ↗**  
Works on [WISP](#), a family of batteryless sensors that are powered by and communicate entirely through UHF RFID.
- Works with ultra-low-power electronics and firmware powered via RFID backscatter
  - Develops firmware for the next generation of WISP sensors including IMU and microphone versions
  - Leads the creation of an internal tool to streamline the development process
- 2018-2020 **[Aquametric](#) ↗**  
A project to develop ultra low power, real-time stream, and river measurement devices.
- Designed device hardware and embedded software for cellular-connected sensors
  - Developed low-power hardware and firmware, LoRa, cellular IoT devices, and ultrasonic/LiDAR ranging technologies
  - Won the [Hackaday Bootstrap Award](#) and was a [finalist for the Hackaday Prize 2020](#), an international competition for open-source hardware and software
- Summer 2019 **Lake Submersible with Prof. William Keat**  
Worked with Professor Keat of Union College in his mechanical engineering lab on a ballast-controlled submersible designed to explore and photograph a local lake.
- Explored magnetometer-based sensing to locate a sunken car
  - Coordinated with Union's Geosciences Department for our in-water test

## Volunteer

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- 2016-2021 **Technical Design Lead**  
[NY STEAM Bus](#) ↗  
A student-founded and led school bus retrofitted with STEAM education technology that produces and teaches lessons.
- Designed initial school bus retrofit and took part in its physical renovation
  - Responsible for the integration of technology both for the function of the program and within student lessons
- 2019-2020 **Web Development and Graphic Design Lead**  
[Athletes for Equal Rights](#) ↗  
A group that highlights the experiences of marginalized groups in athletics.
- Built the animated, interactive timeline and custom WordPress blog

## Skills

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### Hardware

- PCB design and assembly
- IoT (WiFi/Cellular/LoRa) devices
- CAD and rapid prototyping

### Software

- Python, Java
- Embedded C/C++ and low-level programming
- Web development - SASS, JS/React, PHP