Open Student Research Positions

Minimum Qualification: Student at Ohio University, Russ College, and U.S. Citizen.
Multiple positions available. EE, CpE, CS, related to following:

FAA Joint University Program.

- FAA sponsored research program between MIT, Princeton, and Ohio University.
- Research in communications, navigation, and surveillance systems.
- Radar detection and target processing of avian and UAS targets.
- Data link formats for Automatic Dependent Surveillance-Broadcast (ADS-B).
- Work with ADS-B hardware including Thales ADS-B transceiver, Garmin GLD-88 and prototype version of Garmin Pilot.
- High resolution video/optical/Lidar target detection and digital image processing.
- UAS/UAV/drone test platform development.
- Knowledge of and interest in aviation a plus.
- Present findings at Quarterly FAA sponsored meetings at FAA, MIT, Princeton University, and Ohio University via Ohio University airplanes.
- Internship at FAA William E. Hughes Technical Center (WJHTC), Atlantic City, NJ possible.

USAF, Air Force Research Laboratory (AFRL).

- Satellite Navigation Augmentation to Improve Navigation Technology (SAINT).
- Secure Integrity GPS/GNSS Monitoring and Augmentation (SIGMA).
- Development of GNSS (GPS, Glonass, Galileo, Beidou) Receiver Configuration and Data Collection systems.
- Fabrication of specialized GNSS receiver systems to be remotely controlled, operated, and configured via the Internet to support the advancement of navigation technologies.
- Development of advanced GUIs to display GNSS receiver performance.
- Software Defined Radio development for high-fidelity digital RF sampling and playback.
- Receiver clock and timing investigations.
- Communications data link development to enable data link diversity using military, commercial, and consumer grade data links.
- UAS/UAV/drone test platform development.
- Internship at USAF, AFRL, Sensors Directorate, Wright Patterson Air Force Base, Dayton, OH possible.

Interested student should send a short interest statement, resume, and DARS to:

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