Ben Kwiatkowski

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Summary and Career Goals

- Fifth year (BS/MS) student at Case Western Reserve University, pursuing a master's in electrical engineering (EE)
- Aspire to design implanted sensors and test their performance
- Interested in gaining experience designing integrated circuits (ICs) for wireless communication and power transfer between implanted devices

Education

Case Western Reserve University, Cleveland, OH
August 2021 - May 2026 (anticipated M.S. completion)

Master's Degree in Electrical Engineering
May 2025 - May 2026
Current GPA: 4.0

- Continuing work on my thesis, which consists of the design and testing of several iterations of flexible antennas for use as omnidirectional transmitters in implanted sensors
- Contributed to an IC tape-out with an ultra-low power design of a CMOS voltage reference circuit
- Taking courses in VLSI, embedded systems design, bioelectric phenomena, and statistics in biological and medical science

Bachelor's Degree in Biomedical Engineering and Electrical Engineering
August 2021 - May 2025
GPA: 3.894 - Graduated cum laude

- Began the B.S./M.S. program on the thesis track, working on designing the first iteration of a flexible printed circuit board antenna for implanted devices
- Worked on two senior projects
    - Collaborated in a team of four on the design and fabrication of an assistive arm support for patients with hemiparesis (muscle weakness on one side)
    - Collaborated with two teammates on the design of a circuit used to demodulate amplitude-shift keyed signals
- Undergraduate research experience in signal processing of neural signals from patients receiving intracortical microstimulation
- Three years in CWRUbotix (CWRU's robotics team) electrical subteam
    - Assisted with designing and testing the electronics for a remote-operated underwater robot
- Completed biomedical and electrical engineering courses, including MOS IC design, electronic analysis, biomedical signals and systems, and biomedical instrumentation

Strengths

Analog and Digital Circuit Design

Cadence and Mentor Graphics IC EDA

Altium and Fusion PCB design

MATLAB, Java, some experience with Python

Team-oriented

Extracurricular Activities

Tutoring - Providing tutoring for at risk Elementary and Middle School students

CWRU Robotics Outreach - Participate in outreach events with CWRUbotix in the Cleveland community

Amateur Radio - Earned Technician Class radio license in March, 2024