

Cody J. Edmond Patent Engineer

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Cody Edmond combines technical experience with a problem-solving mindset to help clients drive advancements in biomedical innovation by developing and protecting their intellectual property.

Before joining Foley, Cody gained experience in orthotic fabrication and modification at an orthotic manufacturing facility. His role involved creating Charcot Restraint Orthotic Walker (CROW) rigid boots using materials such as polypropylene and copolymers; prosthetic adjustments; limb casting modifications; and insert development. He oversaw numerous orthotics from start to finish in the fabrication process.

As a biomedical engineering student, Cody participated in several life sciences-focused projects. Using Fusion 360, a computer-aided design software application, he designed a 3D-printed prosthetic hand with the goal of it grasping and releasing objects with the assistance of electromyography (EMG) electrodes and an open-source microcontroller board. As part of Cody's senior capstone design project, he teamed with other biomedical engineering students to develop and design a multifunctional ankle brace prototype combining therapeutic cooling with an insole-based gait analysis system using force-sensitive resistors (FSRs) to enhance post-injury recovery. In addition to development, project steps included conducting an economic feasibility analysis to assess the device's commercial viability and developing detailed technical documentation to support future iterations and commercialization efforts.

Cody also has experience with programming languages such as MATLAB, Simulink, and Python, and data analytics software such as Minitab.

Education

- University of Wisconsin, Milwaukee (B.S., summa cum laude, 2024)
 - Biomedical engineering
 - Dean's list, Fall 2020-Fall 2024