

CHEYENNE NICOLE RUPERT

EDUCATION

BS IN BIOMEDICAL ENGINEERING

University of Cincinnati, 2028

Minor: Biomedical Electronics and Computing

Certificate: Engineering Project Management

SKILLS

Power Tools	Fabrication Equipment	CNC and Laser Routers
SolidWorks	CorelDraw	MATLAB
Arduino	Python	LabVIEW
Minitab	QuickBooks	SAP
Keyence	Instron	MicroVu

PROJECTS

MUSCLE-POWERED BLUETOOTH ROBOT

University of Cincinnati/Personal Project

Designed and fabricated an EMG-controlled robotic vehicle using Arduino, Bluetooth communication, and custom circuitry.

DRONE

Personal Project

Designed, built, and coded a custom drone.

AUTONOMOUS ROBOTS(S)

University of Cincinnati

Programmed and designed an autonomous robot for navigation and object detection.

INVOLVEMENT

2023-PRESENT

- National Society of Women Engineers
- Biomedical Engineering Society
- One Gen Away
- Shower-up
- Animal CARE Humane Society
- Clean Up Cincy

2018-2023

- Varsity Lacrosse
- Varsity Air Rifle
- JROTC

EXPERIENCE

ENGINEERING INTERN • MAY 2026 – PRESENT

Medacta USA, Inc • Franklin, Tennessee

- Reverse-engineered orthopedic instruments and created production-ready CAD models using 3D scanning.
- Developed technical presentations to communicate new product concepts with surgeons and cross-functional teams.
- Supported product development through 3D printing, cadaver labs, operating room observations, and industry conferences.

PRODUCT DEVELOPMENT CO-OP • AUG 2025 – DEC 2025

Enable Injections • Cincinnati, Ohio

- Utilized new tools and equipment to solve manufacturing and product challenges.
- Designed workflows and prototypes; conducted tests to validate solutions.
- Collected and tested samples to inform design and process improvements.

QUALITY ENGINEERING • JAN 2025 – APR 2025

Enable Injections • Cincinnati, Ohio

- Performed statistical analysis and verified data accuracy for design and quality assurance.
- Developed and standardized templates for engineering compliance documentation.
- Synthesized documentation for regulatory and internal quality requirements.

APIARIST • APR 2019 – AUG 2023

Self-Employed • Nashville, Tennessee

- Designed, prototyped, and tested custom beekeeping tools.
- Developed innovative methods to improve hive management and colony health.
- Evaluated tool performance and implemented design improvements.

MEDICAL ASSISTANT AND FINANCIAL COORDINATOR • MAY 2017 – AUG 2023

Vertex Spine • Nashville, Tennessee

- Managed Financial accounts and facility operations in a medical environment.
- Worked independently on collecting data and building forms.
- Assisted physicians during cadaver labs evaluating new medical instrumentation.