

CHEYENNE NICOLE RUPERT

EDUCATION

BS IN BIOMEDICAL ENGINEERING

University of Cincinnati, 2028

Minor in Biomedical Electronics and Computing

Certificate in 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.