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**Vincent Girard**  
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*Campus Address*  
910 North Renee Street  
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### **EDUCATION:**

**Marquette University** - Milwaukee, WI  
Bachelor of Science in Electrical Engineering  
Marquette Honors Program  
Pere Marquette Scholarship  
Dean's Honors List (4x)  
Outstanding Second-Year Student Award

**August 2023 – May 2027**  
GPA: 3.870/4.00

### **EXPERIENCE:**

#### **ELECTROMAGNETIC FIELDS 1**

**Design Project** – Milwaukee, WI

**September 2025 – Present**

- Designed and simulated a coil-based electric motor to demonstrate electromagnetic induction and torque generation principles
- Applied Maxwell's equations and Ampere's law to calculate magnetic flux density and optimize coil geometry
- Constructed prototype wiring to visualize real-time current-induced magnetic fields, verifying theoretical predictions

#### **BIOMEDICAL ENGINEERING SOCIETY (BMES)**

**Electromyography (EMG) Muscle Music** – Milwaukee, WI

**August 2025 – Present**

- Collaborating on a multidisciplinary project that converts biopotential EMG signals into musical sound outputs
- Responsible for signal acquisition, conditioning, and hardware integration within the Signal and Hardware team
- Programmed Arduino microcontrollers to interpret analog EMG data and control digital sound synthesis in real time.

#### **CAR DETAILER**

**Car Detailing Business** – Omaha, NE

**June 2022 - Present**

- Founded and operate an independent auto detailing business serving over 100 recurring clients annually.
- Provide comprehensive detailing services, including polishing, waxing, paint correction, and interior restoration.
- Manage all aspects of business operations — scheduling, customer communication, marketing, and financial tracking.

#### **BIOMEDICAL ENGINEERING SOCIETY (BMES)**

**Robotic Arm Project** – Milwaukee, WI

**August 2023 – May 2024**

- Contributed to design and implementation of a robotic arm controlled by Xbox Kinect sensors for motion tracking.
- Supported the Electrical Team by developing control circuits and Arduino-based servo motor systems.
- Performed soldering, circuit assembly, and calibration of servo components to ensure precise positioning.

### **ACTIVITIES & INTERESTS:**

**President**, Biomedical Engineering Society (BMES)

**May 2025 – Present**

**Recruitment Chair**, Sigma Phi Delta Chapter

**August 2024 – Present**

**Member**, Tau Beta Pi Wisconsin Beta Chapter

**November 2025 – Present**

### **SKILLS:**

#### **Programming:**

MATLAB

C/C++

Arduino

Java

Machine Learning

#### **Design and Simulation**

Solidworks

PSoC

VHDL

#### **Lab & Fabrication**

3D Printing

Soldering

Oscilloscope

Multimeter