LinkedIn: www.linkedin.com/in/morgan-stratton

Handshake: https://rose-

hulman.joinhandshake.com/stu/users/49825762

Waterloo, IL strattml@rose-hulman.edu Portfolio: dave-stratton.github.io/Portfolio.html

Morgan Stratton

Education:

Bachelor of Science, Mechanical Engineering

May 2027

(618)-973-5868

Rose-Hulman Institute of Technology, Terre Haute, IN

4.0 GPA

Status: First-year student with freshman standing

Relevant Coursework: Graphical Communications, Intro to Design, Computer Programming

Waterloo High School Diploma, Valedictorian

May 2023

Waterloo, IL

4.4/4.0 GPA

Experience:

Turning Point Wellness Center, Waterloo, IL

April 2023 - July 2023

Chiropractic Assistant

- Ran initial screenings on patients and filed patient records
- Administered heating pads, massage gun therapy, and removal of acupuncture needles

Waterloo Country Club, Waterloo, IL

February 2022 - July 2022

Groundskeeper/Dishwasher

- Kept golf course clear of debris and rebuilt sand bunkers
- Cleaned and disinfected all dishes and cooking areas and surfaces

Activities:

Rose-Hulman Human Powered Vehicle Team	Fall 2023 – present
Rose-Hulman NCAA D3 Men's Cross Country Team	Fall 2023 – present
American Society of Mechanical Engineers	Fall 2023 – present
ACES (Academic Challenge)	Winter-Spring 2023

• 2nd Place Individual Chemistry at Regionals and Sectionals

Waterloo High School Cross Country & Track Team, Team Captain

2019 - 2023

- Assisted coaches by leading workouts and motivating teammates
- All-Conference and All-Academic Conference

2022 - 2023

Personal Projects (See Portfolio website for full descriptions, pictures, and other projects)

Touch Sensitive Light Up LED Epoxy Resin Coffee Table

- An Arduino driven programmable LEDs with Touch Sensor Interface underneath a wood and epoxy tabletop.
- Skills learned and involved: woodworking (machinery and hand tools), epoxy/resin, circuit design, mechatronics interfacing, soldering, programming, mechatronics (Arduino)

Electromyography Sensor Interface with Arduino

- Using a MyoWare EMG sensor, I used an Arduino to control servos, LED strips, and relays to perform various tasks (Ex. Translating the movements of my arm to a metal rod with a servo).
- Skills learned and involved: data conversions, programming, mechatronics (Arduino), physical design, hardware (servos, LEDs, relays)

Magic Mirror

- Powered by a Raspberry Pi, the mirror has multiple widgets displaying. Arduino controlled LEDs surround the mirror.
- Skills learned and involved: woodworking and finishing, Raspberry Pi, Arduino, hardware

Skills:

Software: SolidWorks, MATLAB, Python, HTML, CSS, JavaScript, C++, Arduino

Technical: 3D printing, Woodworking,

Hardware: Soldering, Circuit Design/Assembly, Arduino, Raspberry Pi

Language: Conversational Spanish, Illinois Seal of Biliteracy