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| School Address:  100 Institute Road  Box 5456  Worcester, MA 01609 | Ezekiel Andreassen  eandreassen@wpi.edu  (786) 417-2856 | Home Address:  1115 Anastasia Ave  Coral Gables, FL 33134 |

**OBJECTIVE**

Internship focusing on R&D with Robotics Engineering

**EDUCATION**

**Worcester Polytechnic Institute, Worcester MA, May 2022 *GPA 3.5/4.0***

Bachelor of Science in Robotics Engineering

**SKILLS**

**Programming** **Languages**: C, C++, Python, ROS, MATLAB, Java, adaptable to new languages

**Equipment:** CNC Mill, Manual Lathe, 3Dprinting, Arduino, Teensy, ESP32, Raspberry Pi, BLDC Motors and Motors

**Relevant Coursework**: Electromechanical Actuation, Intro to Analog and Digital Filters, Embedded Systems, Robotic Manipulation and Vision Processing, Navigation & Mapping, Stress Analysis

**PROJECTS**

**Ribbot, Heavyweight Combat Robot, WPI, Jan 2019 – Present**

* Worked on a 7-person team to compete on the Discovery Channel show “*BattleBots*”
* Designed mechanical assemblies for high dynamic loading conditions using CAD & FEA
* Iterated assemblies to ensure reliability with high levels of redundancy and repairability

**Carousel, Mechanical Display Art, WPI, Aug 2020 – Present**

* Designed a robot that fills and clears a canvas of multicolor plastic balls
* Integrated separate electromechanical components for final product

**Dynamic Quadruped, Capstone, WPI, Sep 2020 – Present**

* Implemented distributed computing system across multiple microcontrollers in C++ & Python
* Designed low-mass linkage and transmission to lower power requirements and simplify wiring
* Researched high level control algorithms for static and dynamic walking gates

**WORK EXPERIENCE**

**Robotics Lab Assistant, WPI, Oct 2019 – Present**

* Tutor robotics students
* Stocked inventory and filled student part orders
* Prepared student instruction and aided development of student robotics coursework

**Engineering Intern, Syntheon LLC, Miami FL, Summer 2017,2018**

* Developed prototypes of peripherals for endoscopic devices
* Designed tooling for manufacturing

**Additional Experience**

**Carbon Composite Skateboard Deck, WPI, Feb 2020 – May 2020**

**Exec Officer, Outing Club, WPI, Feb 2019 – Jan 2021**

**Manager, Climbing Gym, WPI, Feb 2019 – Jun 2020**

**Counselor, YMCA Camp Warren, Eveleth MN, Jun 2017 – Jun 2019**

**3 lb Combat Robotics, FL, MA, CT, Aug 2016 – Present**