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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***

Bachelor of Science in Robotics Engineering

**Ransom Everglades School, Coconut Grove FL, June 2018**

**SKILLS**

**Engineering**: Project Management, Mechanical Design, Computer Science,

**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, Various Computer Science Classes

**PROJECTS**

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

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

**Quadruped MQP Project, WPI, September 2020 – June 2021**

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

**CAVE, Climbing Gym, WPI, Manager, February 2019 – June 2020**

* Insured safety of day-to-day operation.
* Orchestrated 20+ volunteers’ maintenance and oversight of the gym
* Organized and got presenters for competitions and events

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

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

**WORK EXPERIENCE**

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

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

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

* Stocked inventory and filled student part orders
* Prepared student instruction and aided development of student robotics labs

**Counselor, YMCA Camp Warren, Eveleth MN, June 2017- June 2019**

* Outdoor Overnight Counselor to children 8 to 16
* Lead Multiple Trips into National Parks and the Great Lakes

**COMMUNITY INVOLVMENTS**

**Outing Club**, September 2020 - Present

**CAVE Manager,** February 2019 – June 2020

**Officer at Large**, June 2020 – January 2021

**Member**, August 2018 - Present

**Underwater Hockey**, September 2018 - Present

**Member,** September 2018 - Present

**Combat Robotics Club**, August 2018 – Present

**Active Member**, August 2018 – Present

**Mentor,** August 2020 - Present

**CERTIFICATIONS**

* O.S.H.A 10-hour Certificate