

AHARON SEBTON

- » Status: Electrical engineering student seeking a full-time job beginning summer 2022
- » Interests: Robotics, Image & Signal Processing, Audio/Sound Engineering
- » Skills: MATLAB/Simulink, C/C++, Assembly, Python, Verilog/VHDL, ROS, Altium Designer, CAD Design, Visual Studio, Quartus, SPICE, Soldering, Office 365
- » Activities: Guitarist, Singer, Running, Cooking, Woodworking, Origami

»»» Work Experience

- Aug 2020 - Aug 2021 **Orientation Program Assistant** Rochester Institute of Technology
- » Collaborated with a team of ten assistants and two orientation program coordinators
 - » Organized and distributed personal protective equipment and merchandise for new students during the COVID-19 pandemic
 - » Transported materials and set up stations for orientation events held throughout the week
- Jan 2020 - July 2020 **Hardware Design Engineering Co-op** Collins Aerospace
- » Team member of a process-oriented hardware test and development group
 - » Assisted in the qualification testing and FAA approval of flight deck control panels for the Comac ARJ21-700 and Bombardier CRJ700
 - » Used Jama to document requirement based testing, DxDesigner to update schematics, and Subversion for version control
- Aug 2018 - Aug 2019 **Orientation Leader** Rochester Institute of Technology
- » Responsible for welcoming approx. 20 new students and their families to RIT
 - » Coordinated with supervisors to help new students move into and adjust to their new living and learning environment

»»» Education

- Aug 2017 - Dec 2022 **BS/MS Degree, Electrical Engineering with focuses in Robotics and Signal & Image Processing** Rochester Institute of Technology
- » Currently learning: Butterworth/Chebyshev/Elliptic filter design; image compression algorithms; controlling robots using frame transformations, ROS, Python scripts
 - » Graduate research: Create neural network, train arm robot to organize its workspace
 - » Learned time management, financial management, and leadership skills by serving on the executive boards of three musical clubs on campus
 - » 3.53 GPA

»»» Projects

- May 2021 - Present **Pediatric Test Mannequin** Rochester Institute of Technology
- » Untethered test mannequin retrofitted with orientation sensors, inertial measurement units, force sensitive resistors, and load sensors
 - » Designed to test the safety and user comfort of the Motorized Pediatric Stander Kit as well as other mobility aids
- Oct 2020 - Dec 2020 **LeRoy the Encouragement Dependent Robot** Rochester Institute of Technology
- » Differential drive mobile robot built using MABL Bot chassis, Teensy 4.0 microcontroller, and H-Bridge IC. Programmed in C++ using VS Code
 - » Follows lines using IR sensor array. Avoids obstacles using ultrasonic sensor. Incremental encoders control speed
 - » Sound sensor used to detect clapping or cheering. Different audio volumes map to different robot traveling speeds