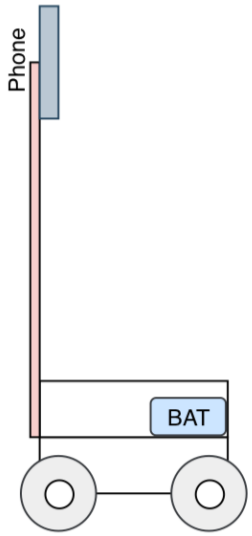
Autonomous Navigator

The objective of this project is to build the hardware and the software of autonomously navigating robot. The robot must contiguously navigate all CSCE corridors (the robot must navigate every corridor at least once every 10 min) while avoiding obstacles (stationary and moving). Also, the robot must greet anyone who stands in front of it (for 5 seconds or more). You may use QR code stickers (or RFID tags) and/or velocity/acceleration integration/accumulation for localization.



Rules:

- Use whatever sensors/actuators you can get (workshop, lab and/or local market).
- Avoid hitting other robots. If you intentionally hit other robots, you will be penalized!
- Best implementation will receive 10% bonus
- Coolest Implementation will receive 10% bonus
- You may replace the phone given to you by any other phone
- Your work will be demonstrated on Tuesday Dec 10th (Lab meeting time)
- Your work (source code, presentation slides, …) must be submitted as a GH repo