

The background of the entire image is a photograph of a workshop or lab bench. It features a speckled grey and white surface. On the right side, there are various electronic components and tools, including a breadboard with a circuit, a bundle of multi-colored jumper wires, and some small electronic parts. A red semi-transparent rectangle is overlaid on the left and center of the image, serving as a background for the text.

CE PROJECT PORTFOLIO

Rody Pointjour

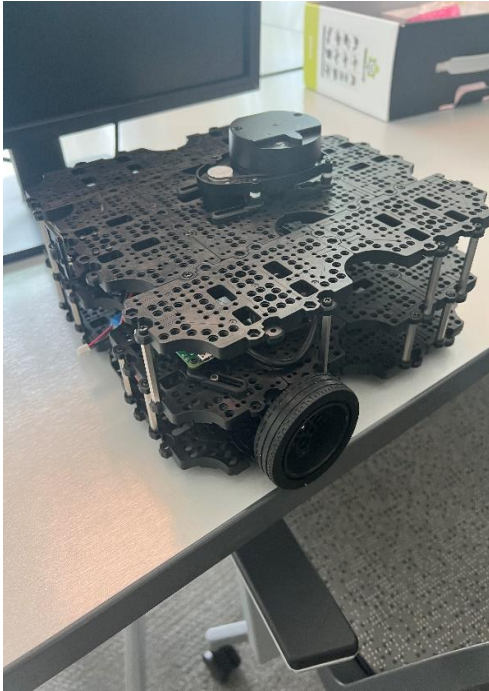
Computer Engineer

LinkedIn: [linked.com/roody-pointjour](https://www.linkedin.com/roody-pointjour)

Email: roody.jerry@yahoo.com

RJP

TurtleBot3(Waffle Pi)



Overview

The goal of this project aimed to design and build a robot capable of autonomously following the dynamics of a leader. I worked together alongside my team to program the robot to follow a human. Basically, the follower in the leader-follower system, could track the trajectory of the leader without any collisions.

Hardware

Remote Controller(Bluetooth, BLE)

360 Degree Laser Distance Sensor(for SLAM & Navigation)

Sensors: Gyro, Accelerometer, IR Sensor, Motion Sensor, Distance Sensor

Software

ROS - Robot Operating System

SLAM - Used for mapping