

Module 5 - Turtlebot Family

ME4140 - ROS Workshop

Mechanical Engineering

Tennessee Technological University

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- A Brief History
- Recent Models
- Turtlebot3 at TNTECH
- Tutorial 4 - Turtlebot3

A Brief History

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Recent Models

Original TurtleBot (Discontinued)



TurtleBot 2 Family



TurtleBot 2



TurtleBot 2i



TurtleBot 2e



TurtleBot Euclid

TurtleBot 3 Family

Burger



Waffle



Waffle Pi



Turtlebot3 at TNTECH

Tutorial 4 - Turtlebot3

- ▶ **Overview:** Finally, you are going to install the Turtlebot3 simulator in ROS. This is a 3D robot simulator that uses Gazebo.
- ▶ **Assignment:** Complete the tutorial in the document *tutorial4_turtlebot3_simulator.pdf* on ilearn. You must be able to drive your turtlebot3 around the virtual arena.
- ▶ **Deliverable:** Write a one to two paragraph summary of what you accomplished and what you struggled with the most. Include an image of the turtlesim window after you have driven a pattern.
- ▶ **Next Week:** After completion of Module 5, you are ready to learn about robot navigation. You will learn to use the simulated Turtlebot3 to make a map and navigate in the Gazebo simulator.