

**The George Washington University**  
**Department of ECE**  
**ECE 001 - Intro: Electrical & Computer**  
**Engineering**

**Dr. S. Ahmadi**  
**Class 5**

# Class 5

- Agenda
  - Using a sensor to navigate the robot
  - Practicing 90 degree turns
  - Incorporating turning with sensing
  - Complete robot building for final competition!

# Touch Sensors

- Is a type of digital sensor:
  - Returns a 0 if NOT hit
  - Returns a 1 if HIT
  - As with any digital sensor, it is either “ON” or “OFF”
  - Digital sensors connect to digital ports (7-15) on the “lower deck” of the handyboard
    - (see diagram of the handyboard on the next slide)