

ECE 476/676 - Homework #10

GPS & SCI Communications - Due Monday, April 14th

Design an embedded system which uses the GPS sensor in your lab kit to measure your position, speed, and/or heading. Display this information on your LCD display. Some suggestions are:

- Display your location and distance from a home position on the LCD display
- Display your speed as well as your maximum speed recorded over the past 30 seconds
- Display your heading and speed on the LCD display
- Other

1) Requirements: Specify what your embedded system will do in terms of

- Inputs
- Outputs
- How they relate and what it does

2) Code: Give a Python program which reads the GPS sensor and meets your requirements.

3) Validation: Collect data to verify your embedded system works and meets your requirements.

4) Demo. Video or in person.