**Brief CENG Capstone Project Charter**

**Project area:** / 

1. Facilities: e.g. Bicycle Rental/Parking Lot/Vision System

2. Building Automation: e.g. Greenhouse/SolarPanel/Home

3. Consumer: e.g. Entertainment Protocol DMX/Baby Monitoring Project

4. Education: e.g. Robust Hackable Educational Project

5. Robotics: e.g. Control/Navigation/Dashboard

6. Health and Wellness: e.g. Wearable

**Project Title:**

Sponsoring Industry and Personnel:

Hours contributed:

Number of full-time employees, year established, private or not-for-profit:

Value of equipment or access to equipment provided:

FAST contribution:

**Names of Students Involved in Project:**

Tsidkeenu Aznar: Joystick, multi-meter and raspberry pi kit with sense hat

Chris Burgener: CANBus  
Michael Burgener: I2C slave and master

Tristan Reinhardt: servo motor

*For each individual student state what development platform they have, what sensors/effectors they have, whether they have a functioning prototype, a complete parts kit, a multimeter, describe any unsoldered connections. Designate a project lead and provide the url of the github repository (see the CreateAGitHubRepository guide) that they will maintain for the project.*

<https://github.com/TsidAznar/CENG355>

Hours per student: 14\*3=42 in class hours, 14\*3=42+ outside of class.

Supervising Faculty:

Hours per faculty: 14(3/20\*3)=6.3 in class, 14(1.05+1.49)/20\*3=5.334+ outside of class.

**Executive Summary/Description of the Project (75 to 100 words):**

Scope: Prototype that is not to be left powered unattended.

**System Requirements:** List what sensors/effectors are to do.

Design approach: Raspberry Pi<->Firebase<->Android

Mandate: Self funded?