

Members:

| Name | Primary Role | Secondary Role(s) |
|---------------------------------|-------------------------|-----------------------|
| Dr. Diane Rover | Advisor | Client |
| Jazzlyn Jacobus | Project Lead | Embedded System Lead |
| Benito Moeckly | Machine Learning Lead | Cybersecurity Team |
| Caleb DeBoef | Electrical Systems Lead | Embedded Systems Team |
| Jose Garcia | Cybersecurity Lead | Machine Learning Team |

Week 1-5 Updates:

- Design Review:
 - Draw comparisons to other solutions in our new design document
 - Rewrite testing section
- Design Document Changes:
 - Tone down wording on problem statement in the new design document
 - Change wording to focus primarily on embedded machine learning and better reflect changes currently being made in our university
- Objectives and Requirements:
 - Deliver procedures on how to use the Deep Racer platform
 - A QuickStart guide
 - System requirements for local training
 - Deliver introductory exercises that coincide with the document for a student to perform in a laboratory environment/context
 - Identify in an online course on some platform for learning - use a framework for learning to guide the user through some way that ties into the platform
 - We will be getting CprE 288 lab documents
- General Accomplishments
 - Tap and mats purchased through ETG in order to begin creating a physical track
 - tape has been delivered and picked up
 - still waiting for mats to arrive
 - Began updating design documents to better match our current project goal
 - Began creating an initial lab to introduce students to AWS and machine learning
 - Combined several open source software libraries to allow for local training of the DeepRacer
 - Additionally, packaged them up into a Docker file to allow for easy scalability

- VM is ordered and will be loading onto VM for centralized access within the next two weeks

Individual Contributions:

| Name | Contribution | Weekly Hours | Total Hours |
|---------------------------|---|---------------------|--------------------|
| Jose Carlos Garcia | Local Training DeepRacer Software Package, VM Launch | ~10 | 40 |
| Jazz Jacobus | Updating Design Documents to fit new project direction, creating new diagrams | ~7 | 35 |
| Caleb DeBoef | Researched possible hardware options for bot, ordered materials for testing track, and researched options for track setups | ~7 | 35 |
| Benito Moeckly | Writing Lab/Instructional documents on the DeepRacer and how to train it | 7 | 35 |

Open Issues:

| Issue | Status | Assigned To | Notes |
|---------------------------------------|---------------|-------------------------------------|---|
| Construction of Physical Track | Awaiting ▾ | Caleb Deboef | We're awaiting materials to be delivered to ETG |
| Launch VM containing Software Package | Awaiting ▾ | Jose Carlos Garcia | To centralize access, we're launching a VP with the help of ETG in order to allow everyone in the group access to our software package everywhere ETG is expected to assign us the machine this coming week. |
| Updating of Design Documents | Planning ▾ | Jazzlyn Jacobus, Jose Carlos Garcia | We're updating Design Documents to match our open sourced mission and various packages of software |
| Lab 01 Document | In progress ▾ | Benito Moeckly | Create an example lab for students to serve as introductory |

Upcoming Plans

- Machine Learning team will focus primarily on developing a GUI for ease of access
- Successfully run a virtual race on our virtual environment using said custom libraries
- Deploy software package on the VM and develop GUI to allow for easy setup
- Successfully run a physical model on built track
- Finish updating design documentation