

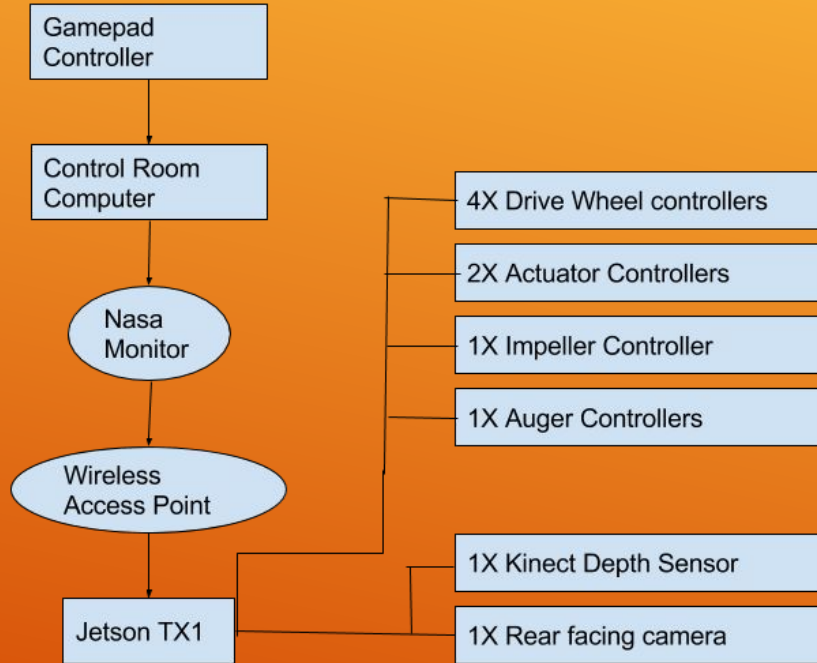


Mars Mining Robot Team

Progress Summary

Module/feature	Completion %	To do
Networking	50%	Work on establishing a connection between the vehicle and the workstation in order to send video feedback
Operating System	70%	Implement the Operating System with the hardware and work out the bugs
Software for hardware	30%	Develop software so that the vehicle runs autonomously.

Basic system architecture



Milestones for Semester 2

Milestone 4 (February 13, 2017)

- Continue to implement and test Networking functions
- Continue to implement and test Operating System
- Continue to implement and test Software that controls hardware
- Continue to design, implement, and test autonomous functionality
- Verify that localization system functions properly

Milestone 5 (March 20, 2017)

- Finish implementing and testing Networking functions
- Finish implementing and testing Operating System
- Finish implementing and test Software that controls hardware
- Continue/finish design, implement, and test autonomous functionality
- Create poster for Senior Design Showcase

Milestone 6 (April 17, 2017)

- Implement, test, and demo Networking, Operating Systems, Software, and Autonomy
- Test/demo of the entire system
- Create user manual
- Create demo video

Description of each planned task for Milestone 4:

- Continue to implement and test Networking functions. We need to work on establishing a stable connection for communication between the vehicle and the workstation. From there we need to work on sending smaller packets across the network.
- Continue to implement and test the Operating System. As of now, we have discovered how to work with the modified linux operating system. Our next task is to work with the actual hardware.
- Continue to implement and test Software that controls the hardware. We will continue to develop software to control the vehicle. Once the actual vehicle is developed, we will work on implementing the software onto it.
- As of right now, the ability for the vehicle to be fully autonomous is on the back burner. It is not required of the vehicle to be fully autonomous for the competition, but we would like to accomplish this.

Task matrix for Milestone 4

Tasks	Catherine	Nicholas
Continue to implement and test Networking functions	70%	30%
Continue to implement and test Operating System	50%	50%
Continue to implement and test Software that controls hardware	50%	50%
Continue to design, implement, and test autonomous functionality	50%	50%
Verify that localization system functions properly	30%	70%

