

Project Scope

Collaborators: Ashton Chatelain, Jesse Duran, Joseph Bradford

1 Project Name: Self Balancing Robot

2 Inspiration for the project <https://www.youtube.com/watch?v=g5DNjcppkYU&feature=youtu.be>

3 Basic task(s) to be performed

- Acquire hardware
- Code system
- Test code in system
- Assemble robot
- Test system
- Create White Paper

4 List # and type of microcontrollers to be used

- Arduino uno

5 List additional equipment needed

- sensors
- hardware robot frame eg screws, wood/plastic
- servos and wheels
- wiring
- battery

6 Team member assignments and timeline

team assignments:

- Ashton TBD
- Jesse TBD
- Joseph TBD

Timeline

1. Research your choice of microcontroller and related equipment
 - We will use the Aduino Uno, servos, and sensors
2. Select a project, get started, and have fun.
 - Selected Self balancing robot
 - Design robot
 - Aquire hardware
3. Write a formal White Paper. Submit a .doc or .pdf file.
 - Due 4/15
4. Demo your project to the class. 10-15 minute presentation.
 - Due 4/15
5. Submit Peer reviews.
 - Due TBD