

## **#include <teamname>**

Github: <https://github.com/eisendaniel/ENGR101-AVC>

Due dates:	Project Plan	Monday 7th May
	Progress Report	Monday 21st May
	AVC Testing	Friday 1st June
	AVC Final Report	Monday 11th June

### **Milestones:**

(Note: These are "Worst case scenario" milestones - we hope to have far surpassed these milestones by the time they're due, but if we fail to meet one, then we will re-analyze our plan and adjust accordingly..)

#### **End of Week "0"** (week of 30/4)

The team has met up, the roles have been assigned, and the plan has been completed (and submitted).

#### **End of week 1** (week of 7/5)

Structural: A basic chassis has been designed and built

Digital: A basic program has been set up to send signals to motors. Should include basic functionality: move forwards, move back, turn left, turn right.

#### **End of week 2** (week of 14/5)

Progress report should be completed by the end of this week.

Structural: IR Camera, wheels and battery pack should all be attached to the AVC, and wired properly to the raspberry pi, meaning that it should be able to function properly.

Digital: The AVC should be set up to be able to "course-correct" via the IR camera so that it's able to follow a straight white line and a curvy white line.

Network: A system should be set up for the AVC to connect to the server/gate and transmit the password so that the gate at the beginning of the track will open.

#### **End of week 3** (week of 21/5)

Structural: AVC should be fully-functional, and should be designed in a way that it isn't liable to falling apart at a moment's notice. If all other structural requirements are sorted, then aesthetics can be focused on - in such a manner that it doesn't affect the function of the AVC overall.

Digital: Coding should give the AVC several "phases", each with a different subroutine to follow: Phase 1 for the "straight line and curvy line" section of the track, Phase 2 for the "maze" part of the track, and phase 3 for the "box maze" part of the track. In each phase, the AVC should be able to automatically navigate the course, and will call on discrete functions that are already programmed in for any given situation. This way the code will be kept, for the most part, compact and functional.

#### **End of week 4** (week of 28/5)

AVC testing should be completed by the end of this week.

#### **End of week 5** (week of 4/6)

Final report should be completed by the end of this week.

Conflicting commitments:

	Monday	Tuesday	Wednesday	Thursday	Friday
Week 0 (30/4)	ENGR101 tutorial due			COMP102 assignment due	ENGR121 assignment due
Week 1 (7/5)	ENGR141 assignment due ENGR101 tutorial due		CYBR171 terms test	COMP102 assignment due	ENGR121 assignment due ENGR141 assignment due
Week 2 (14/5)	ENGR101 tutorial due ENGR121 lab #3 due COMP102 test #2			COMP102 assignment due	ENGR121 assignment due ENGR141 assignment due
Week 3 (21/5)	ENGR101 tutorial due			COMP102 assignment due	ENGR121 test #2 ENGR141 assignment due
Week 4 (28/5)	CYBR171 final ass 2 due ENGR101 tutorial due			COMP102 assignment due	ENGR121 assignment due ENGR141 assignment due
Week 5 (4/6)	ENGR101 tutorial due			COMP102 assignment due	ENGR121 assignment due ENGR141 assignment due

### Team Info:

**Team Name:** #include <teamname>

### Team Members & Contact Info:

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Lex Ashurst [xel2754@gmail.com](mailto:xel2754@gmail.com)  
[ashurslex@myvuw.ac.nz](mailto:ashurslex@myvuw.ac.nz)

Robel Ghirmay [ghirmarobe@myvuw.ac.nz](mailto:ghirmarobe@myvuw.ac.nz)

### Communication Tool: Discord

### Team Roles:

Lex: Team Coordinator, Software & Documentation

Daniel: 3D Model Developer and Communication Advisor

Georgia: Hardware Development & Documentation

Aspen: Software Development and Implementation

Jason: AWOL (Will be removed from the team if no contact is made within a week)

Robel: AWOL (Will be removed from the team if no contact is made within a week)

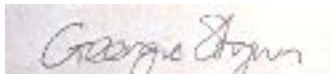
## TEAM AGREEMENT

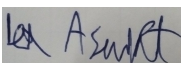
By signing below, all team members are acknowledging that they have read and committed to their part in the AVC. They acknowledge that they will attempt to complete the tasks agreed on by the group each week and document this on the team github account. They acknowledge that failure to meet these goals can result in the team recommending any member receives a lesser grade for their AVC report. In the event that a team member is unable to complete their task due to circumstances beyond their control (i.e. sickness, bereavement etc) that they will inform the team at the earliest possible time. Finally, the team acknowledges that a member going a week without contact with other team members (except when discussed with the team in advance) will constitute the member in question being considered AWOL. In this instance the team agrees to inform the ENGR101 course co-ordinator immediately. The penalty this for this can range from a reduction in the final grade to immediate failure of the AVC (and thus the ENGR101 course). Should the team unanimously agree that a member (or members) have failed to contribute to the AVC sufficiently for other reasons, on the day of robot testing the team will be given the opportunity to anonymously vote for a team member to receive 0% for the robot part of the AVC. Should the team choose this option they MUST be able to show that the member in question had been assigned tasks that they failed to complete and that the team had afforded them an opportunity to make up for past mistakes.

Sign here:

Aspen: 

Daniel: 

Georgia: 

Lex: 

Jason: \_\_\_\_\_

Robel: \_\_\_\_\_