

Team 2 Friday AVC Plan

Group Members:

Connor Fraser - fraserconn@myvuw.ac.nz - 300434830
Matthew Rothwell - rothwematt@myvuw.ac.nz - 300434822
Niels Clayton - nielsdanielclayton@gmail.com - 300437590
Jacob Fraser - fraserjaco@myvuw.ac.nz - 300437587
Deanne Alabastro - aladeanra@gmail.com - 300346210
Richard Lin Liu - liurich@myvuw.ac.nz - 300456282

Communication Tools: Discord, Facebook Messenger, Email, Github & Google Docs.

Main Objectives:

Design and build an autonomous robot capable of completing the various zones for the AVC challenge using the supplied tools and parts.

Whos doing what - personal objectives and tasks:

SSH and Networking - Niels, Deanne, Matthew

Makefiles and scripting - Niels

Motor Control - Connor, Matthew, Niels

Gate Controls - Niels, Deanne, Jacob

Maze Navigation - Connor, Niels, Deanne

Sensor input Interpretation - Connor, Jacob, Niels

CAD Design/3D printing - Niels, Deanne, Matthew

Image Processing - Deanne, Niels, Matthew

Chassis Building - Matthew, Niels, Jacob

Hardware - Niels, Matthew, Jacob

Testing - Everyone

Meetup Day: Meet at 10 am in the lab, Tuesdays (If bookable)
Thursday backup?!

Potential Clashes with Assessments and other things:

Matt- 48 Hours (Film Festival) 11-13 May, CYBR Terms test, Comp test monday.

Cyber Test Wednesday 9th 6-8

Deanne - SWEN test Monday 14th may

Milestones:

AVC Plan: Due Monday 7th May at Midnight

Prototype and initial code finished: Friday 11th May by Noon

Have the code and robot finished/fine tuned: Friday 18th May

Progress Report: Monday 21st May at Midnight

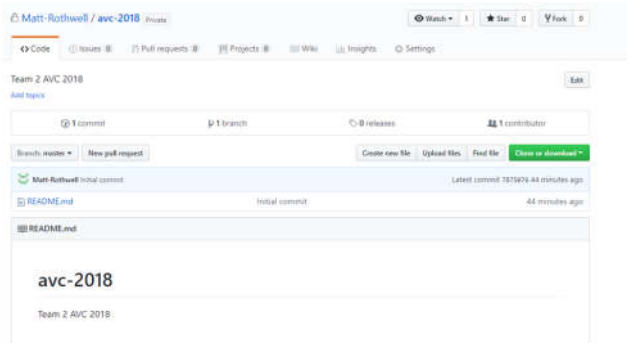
Debug/lots of testing done: Friday 25th May

Robot actually being tested: 1st June

Github:

<https://github.com/Matt-Rothwell/avc-2018/>

(Private, but does indeed exist)



Design Plan:

We want to mount the wheels as close to each other as possible to allow for the smallest possible turning circle. This will also reduce the overall size of our robot. The I/O needs to be accessible and battery mounted near the wheels to increase traction, but still able to be removed easily for swapping.

Team Agreement:

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 lower 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.

Signed by all team members: (Printed Name)/ (Signature)

Conor Fraser *Conor Fraser*

Matthew Rothwell *Matthew Rothwell*

Niels Clayton *Niels Clayton*

Deanne Alabastro *Deanne Alabastro*

Jacob Fraser *Jacob Fraser*

Ricky Liu *Rh*