

FSAE Engine Control Systems Integration and Tuning

Status: Filled

Group Members: Ossama Mansoor, Joyjeet Singh, Thomas Deaton, Dustin Parnell, Kaden Burgart

Sponsor(s):

Supervisor(s): Farid Golnaraghi, PhD, PEng, Director/Professor, Mechatronic Systems Engineering

Project Description

Background

The engine in a Formula SAE vehicle has strict regulations in terms of intake design, limiting airflow. As such, a prepackaged engine is not optimized for Formula SAE competition. This is morygcompmin engine. With the ECU and fuel systems operational, the engine will be tuned for optimum performance in a Formula SAE competition setting.

In short, the project will have 3 sections:

Fuel delivery design, including:

- o Tank design and fabrication
- o Fuel line routing
- o Fuel rail design and fabrication
- o Injector selection

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existing sensors

Engine tuning, likely to include:

- o Dynamometer testing
- o Performance optimization through fuel and ignition timing

For inquiries or further contact:

Geordie Goodall
Co Captain, SF 1 Racing
formula@sfu.ca
(778) 877 6690