# Rover MEGA PROJECT

RoboTech

- **PWM from Raspberry:** Implementation and control of Pulse Width Modulation (PWM) signals using a Raspberry Pi for precise motor control.
- **Switching Circuit:** Design and analysis of an efficient switching circuit to manage high-power loads.
- **DC:** Exploration of DC motor characteristics and performance under various operating conditions.
- **IMU:** Integration of an Inertial Measurement Unit (IMU) for real-time orientation and motion tracking.
- **SPI:** Configuration of the Serial Peripheral Interface (SPI) for fast and reliable communication between devices.
- **ROS bridge:** Development of a ROS bridge to enable seamless communication between robotic hardware and software.

## Introduction

INTRO

## 1. PWM from Raspberry

TITLE:

- item 1.
- item 2.
- item 3.
- item 4.

## 2. Switching Circuit

TITLE:

- item 1.
- item 2.
- item 3.
- item 4.

## 3. DC Motors

TITLE:

- item 1.
- item 2.
- item 3.
- item 4.

## 4. Inertial Measurement Unit (IMU)

TITLE:

- item 1.
- item 2.
- item 3.
- item 4.

## 5. Serial Peripheral Interface (SPI)

TITLE:

- item 1.
- item 2.
- item 3.
- item 4.

# 6. ROS bridge

TITLE:

- item 1.
- item 2.
- item 3.
- item 4.

# Conclusion

CONCLUSION