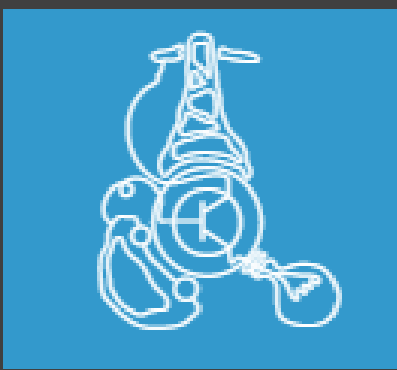# PHYSICAL IMPLEMENTATION of SCALAR CONTROL of INDUCTION MACHINE
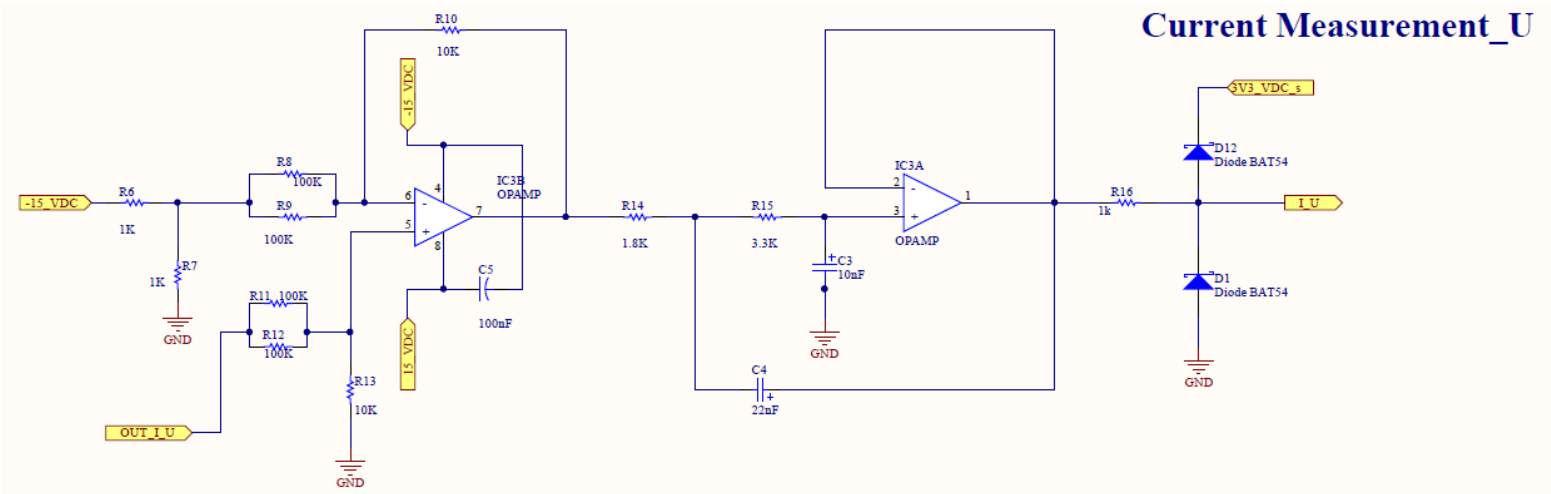
Nyi Nyi Aung, Touseef Ali

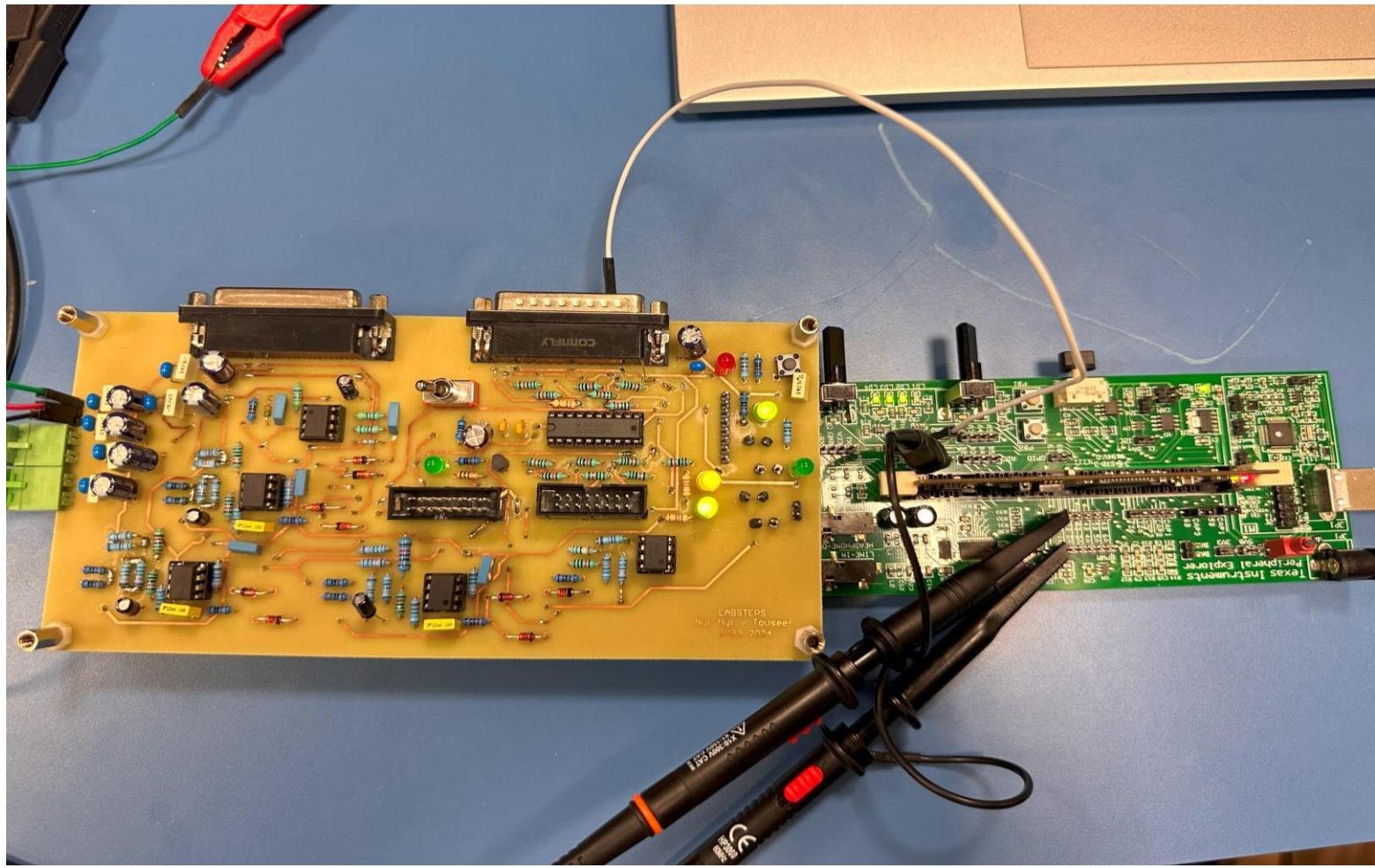**EMJMD - Sustainable Transportation and Electrical Power Systems**

Signal Adaptation and Filtering

Operational Amplifiers are used to amplify and filter the singals given by the Inverter's built-in sensors.
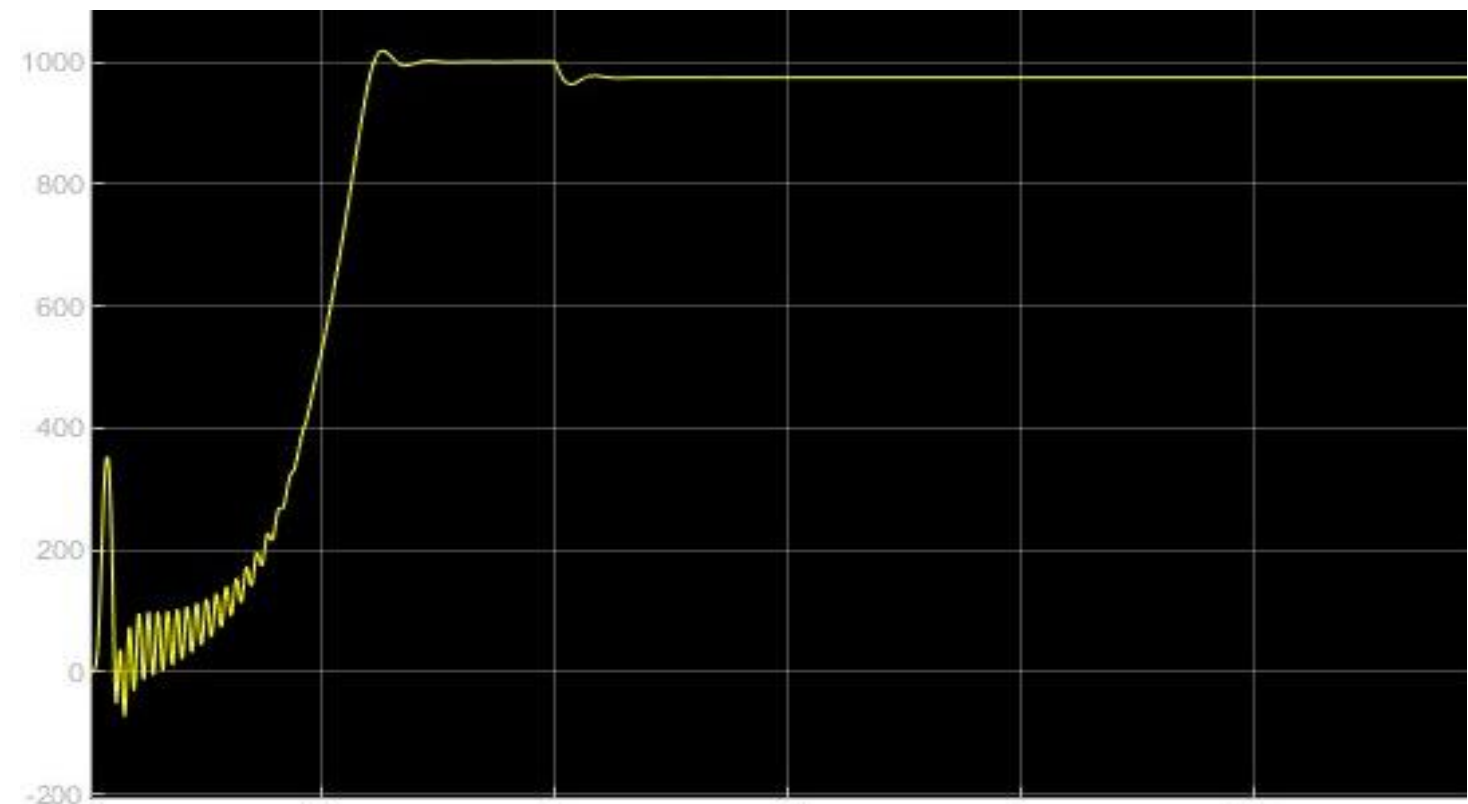

Schematic for Signal Adaptaion and Filtering

Micro-controller

Micro-controller is used to provide the switching patterns simulated in MatLab, Simulink
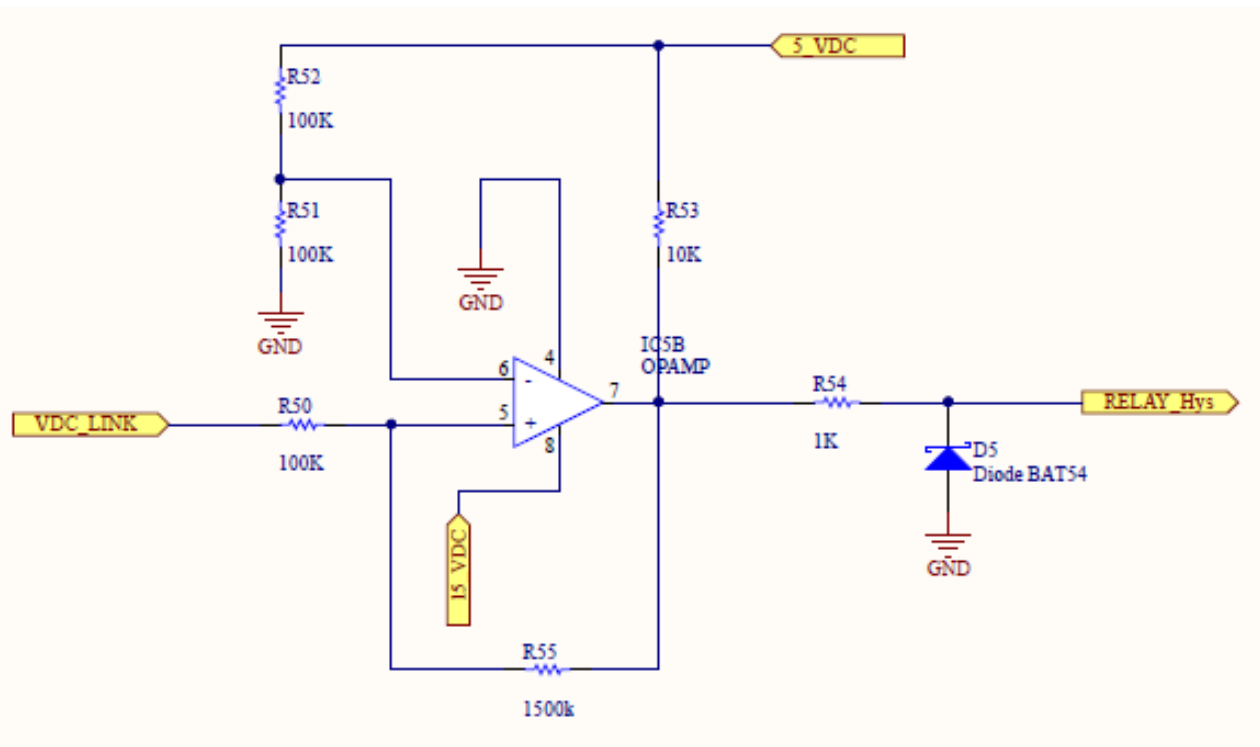

PCB and Micro-controller Connection

Scalar Control of Machine
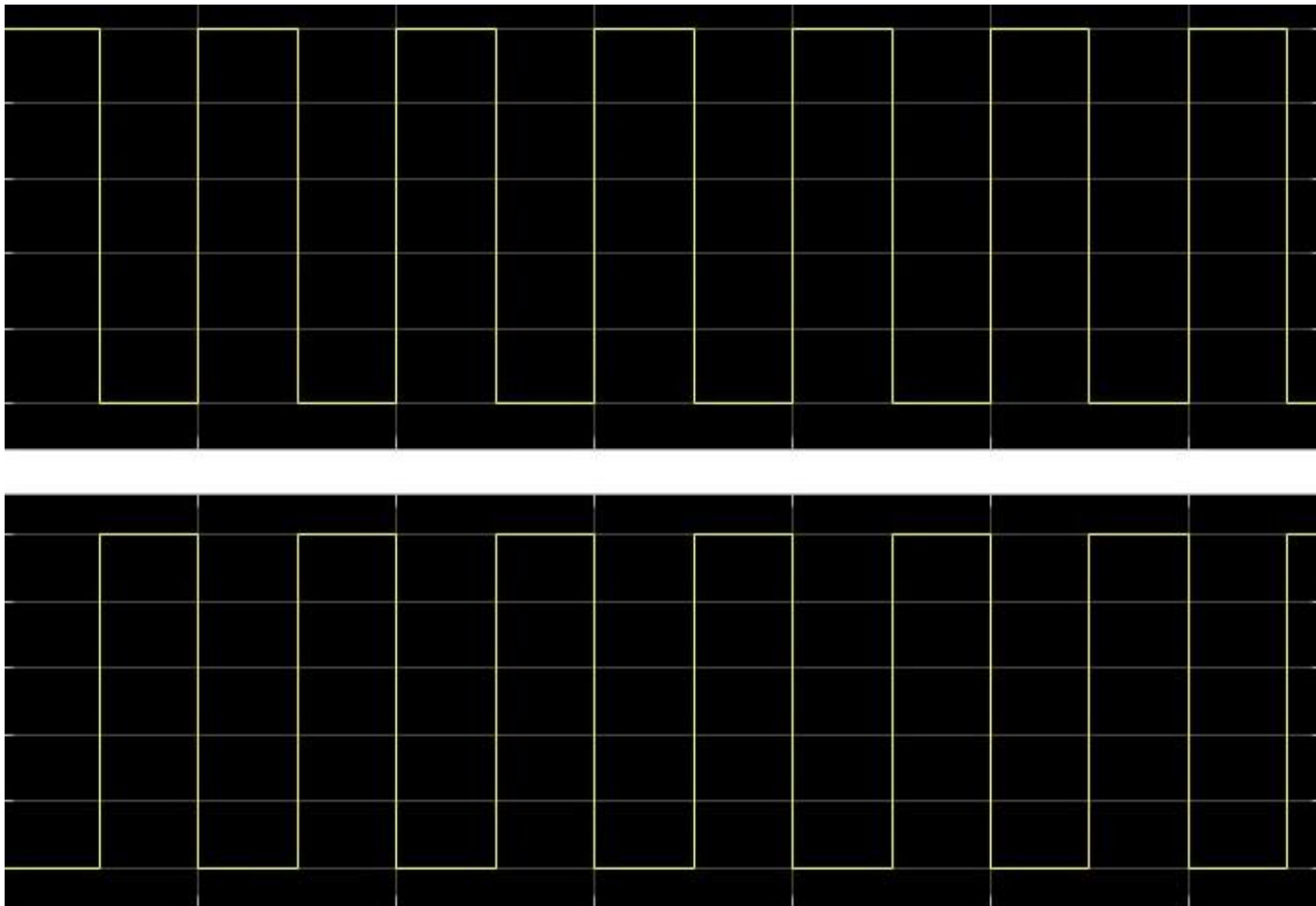

Speed Response of Machine

Comparator with Hysteresis

Comparator is used to actívate or deactivate the relay when the voltage surpasses the specific limit.

Schematic of Comparator

Switching Pattern for Inverter

Switching Patterns to PCB

Physical Implementation