



# DHIRAJ MALI

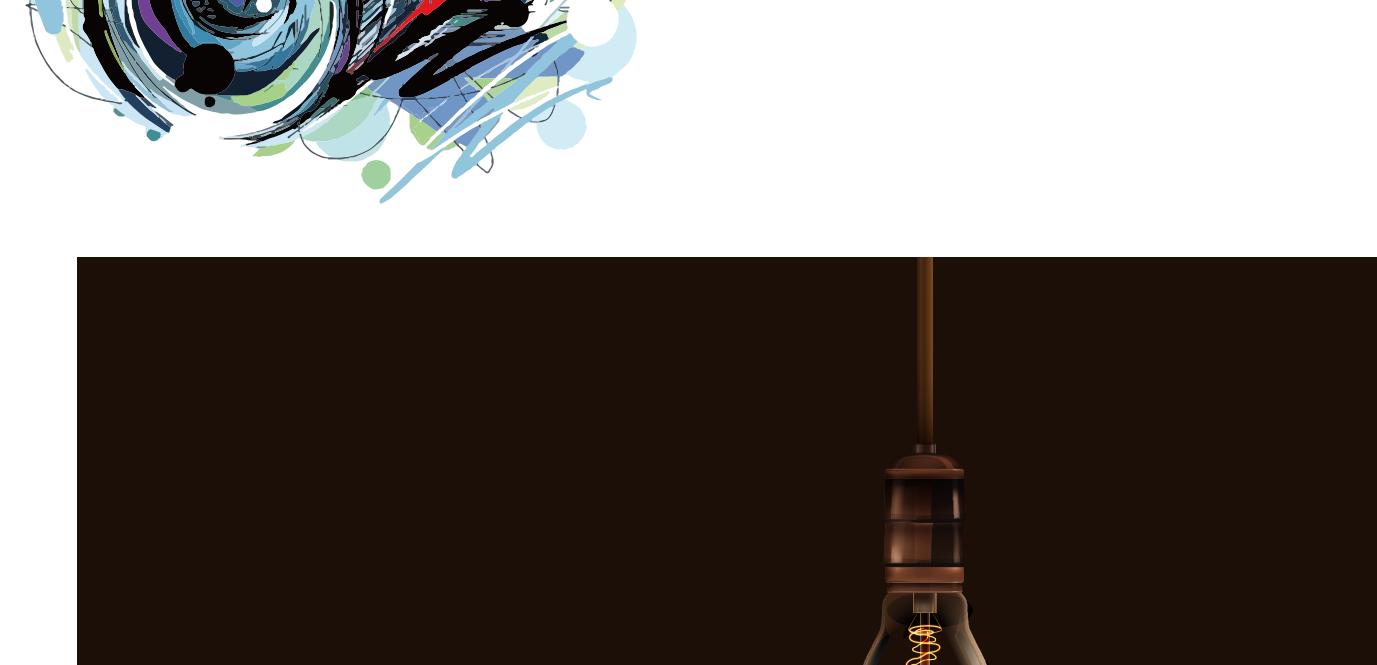
ENGINEER

TRAVELLER

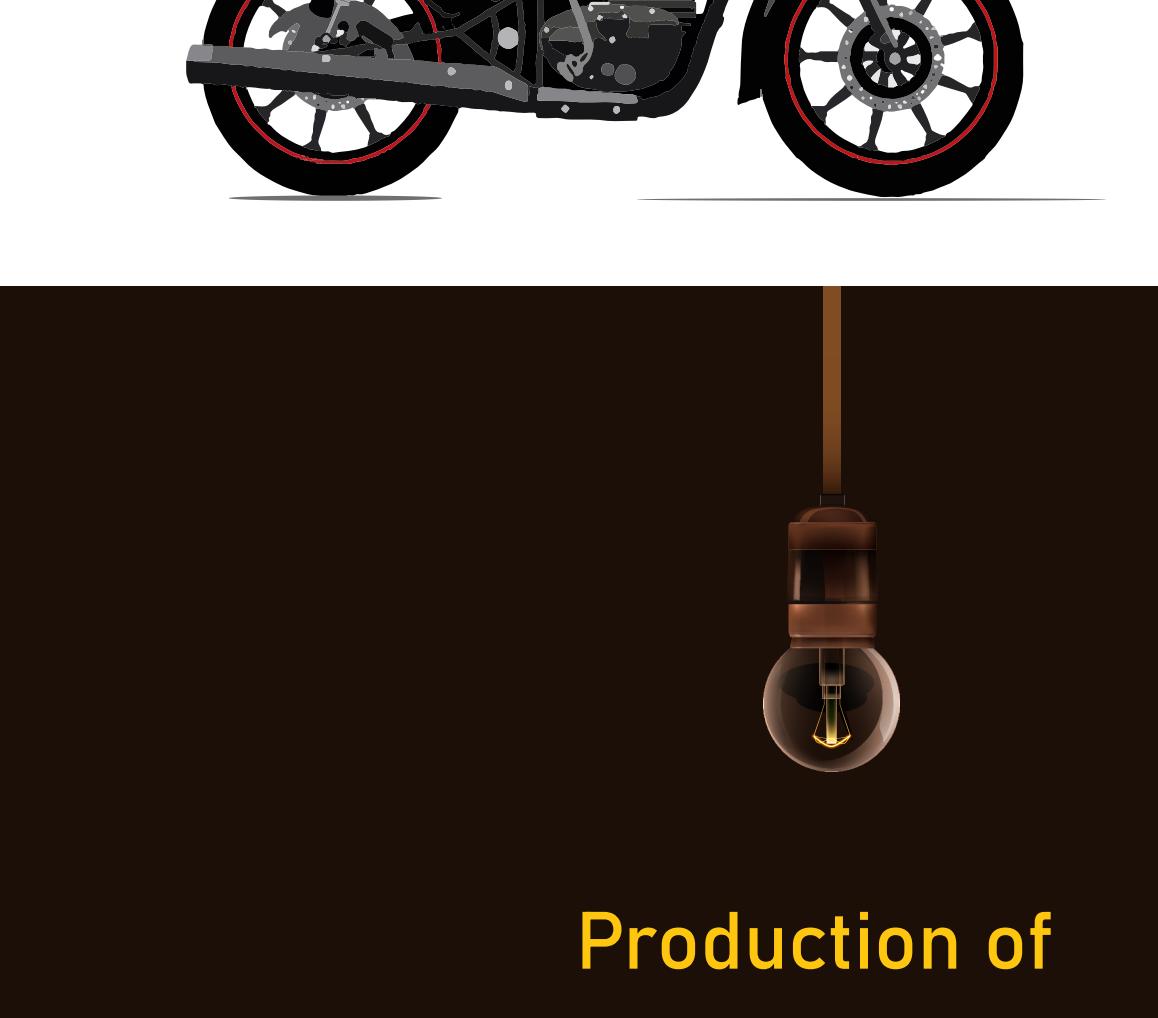
PHOTOGRAPHER

GUITARIST

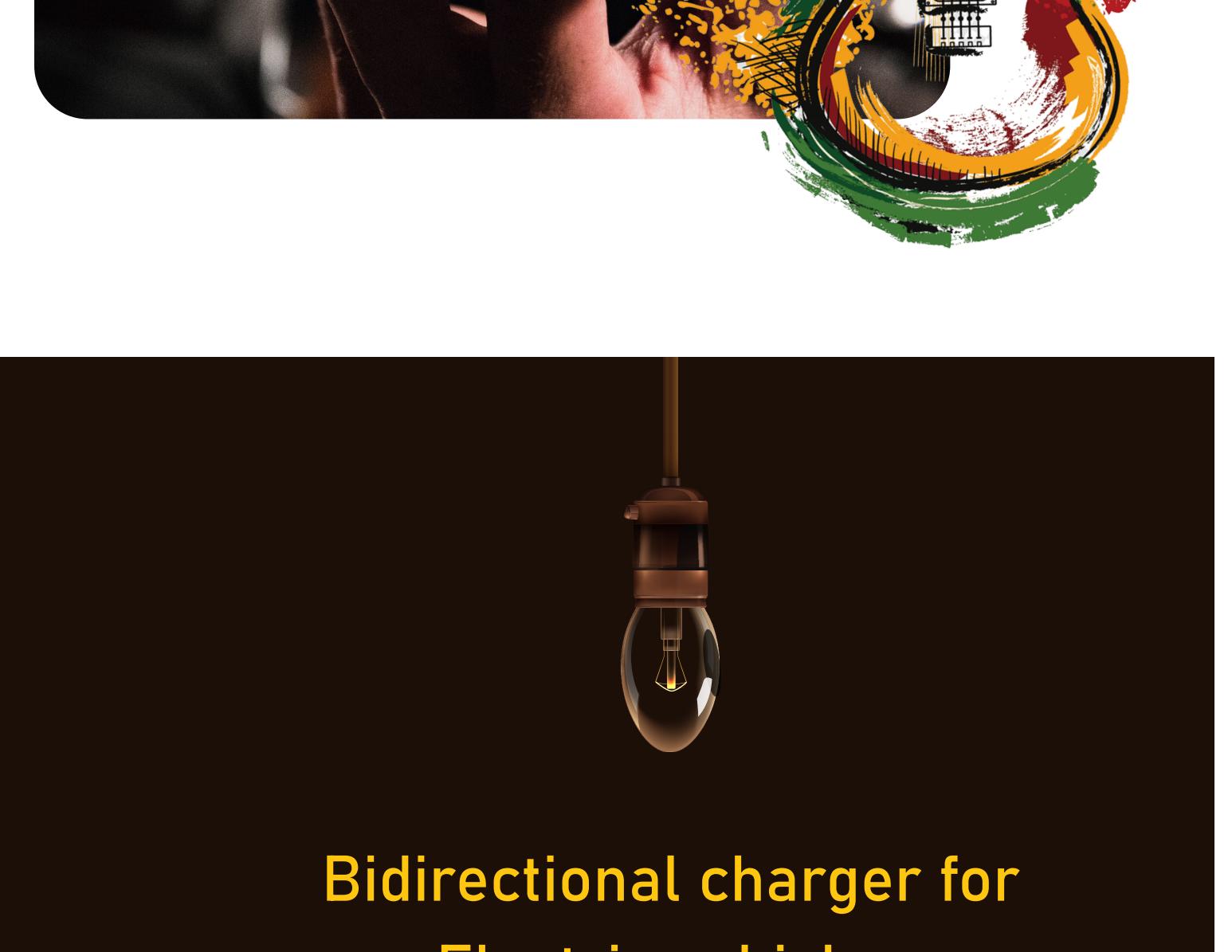
Photography



Travel



Music



Modelling of Hybrid Electric Vehicle using MATLAB

Designed a series-parallel hybrid electric vehicle model in MATLAB, studying and modelling power electronics, drives, control systems and battery management systems. Responsibilities included researching and studying various hybrid electric vehicle system, designing circuits for convertors, inverters and motors, testing each system using simulink.

Production of free energy

designed and manufactured an eco-friendly generator that produces electricity from speed-breakers and sidewalks and it securing 2nd place in a college competition. Responsibilities included designing the generator with scientific reasoning, purchasing materials and tools, and manufacturing and assembling the generator.

Bidirectional charger for Electric vehicles

designed and manufactured a bidirectional charger for electric vehicles that can transfer energy from grid to vehicle, vehicle to grid, and vehicle to home. It can inject power into the grid during peak times and let EV owners use their vehicles as a source of electricity for their homes. Responsibilities included studying and designing the charger, testing it using Simulink, and assembling the final product.

After all I'm Engineer & these are my

## Projects

