

# Automated Valet Parking & Charging

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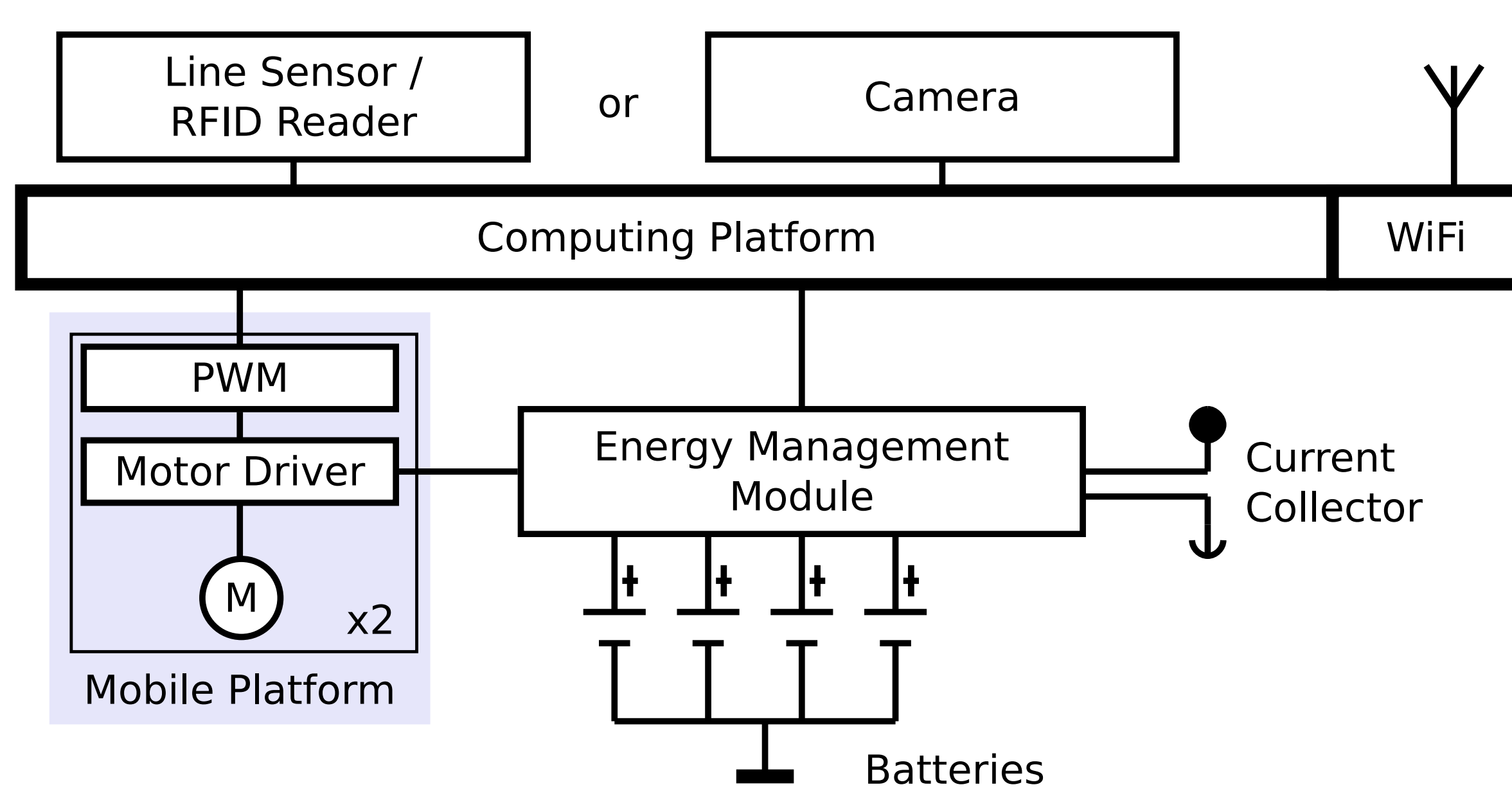
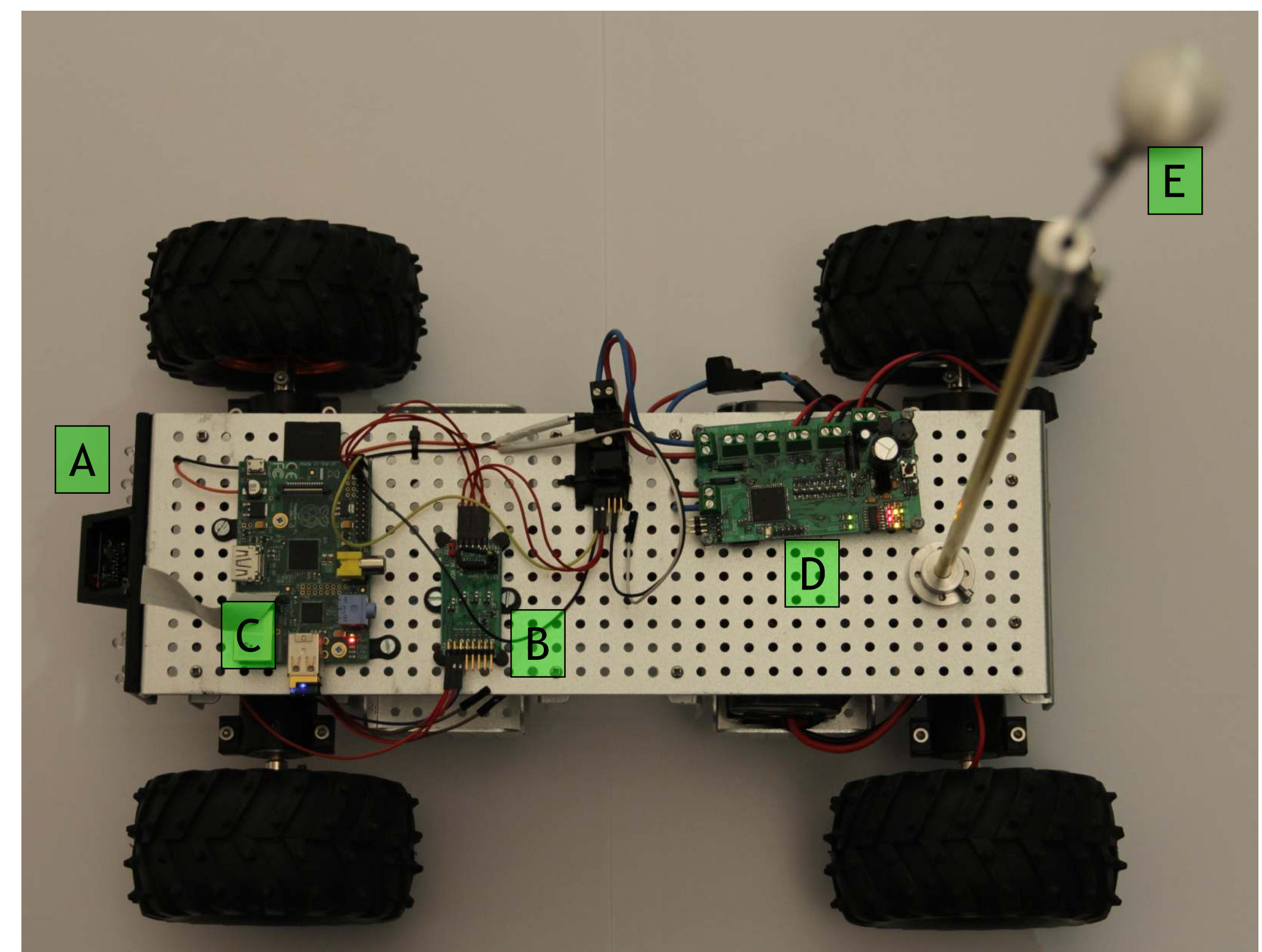


## The V-Charge Project

- Automated parking and charging, e.g., at transportation hubs
- Car dropped off and picked up at special zone near entrance
- Vehicle steers to server-determined destination
- Only low-cost sensors (cameras, ultrasonic, ...)

## Mobile Demo Platform

- A Camera and headlights
- B PWM module
- C Raspberry Pi SBC
- D Energy Management Module
- E Current collector



- High-level commands sent via WLAN
- Line following with OpenCV
- Energy Management Module
  - Charges batteries
  - Decides which battery to use
- Motors controlled using PWM

