

Introduction to PSOC for Arduino and Motor Control

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AGENDA

01 Motor Control

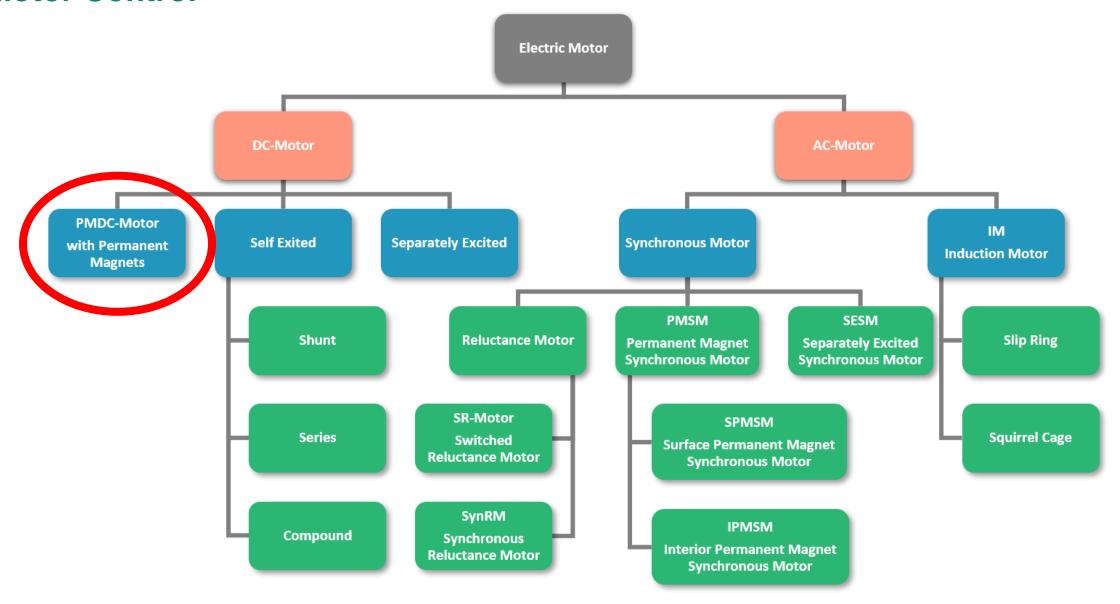
02 What is PSOC?



03 Why PSOC4 Arduino?









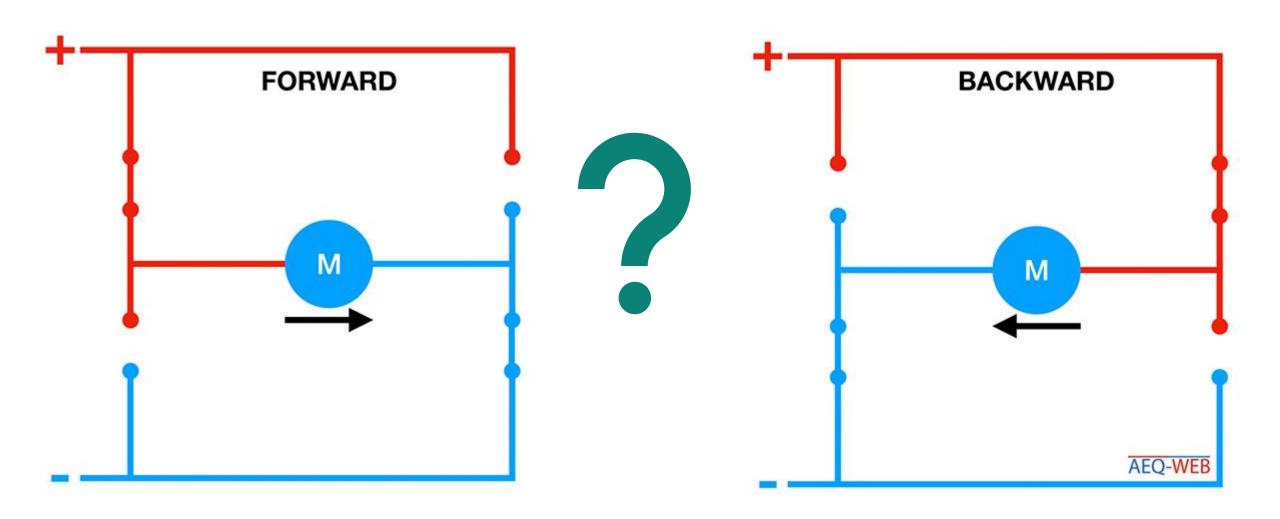




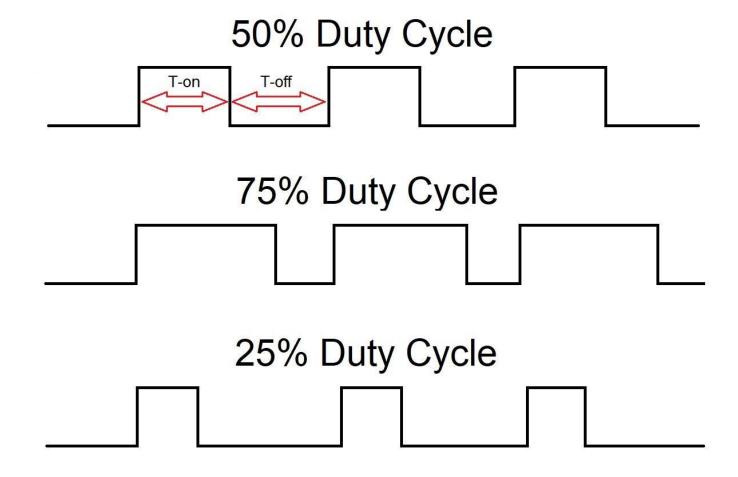














What is **PSOC**

- PSOC = Programmable System on Chip
- Microcontroller

- Functions:
- PWM
- ADC
- communication protocols(UART, CAN, SPI, I2C)





Why PSOC for Arduino?

Arduino ecosystem = simple, popular, numerous libraries

PSOC = powerful, flexible

Through integration, you can:

Still develop easily in Arduino style

Benefit from existing Arduino code

Big community





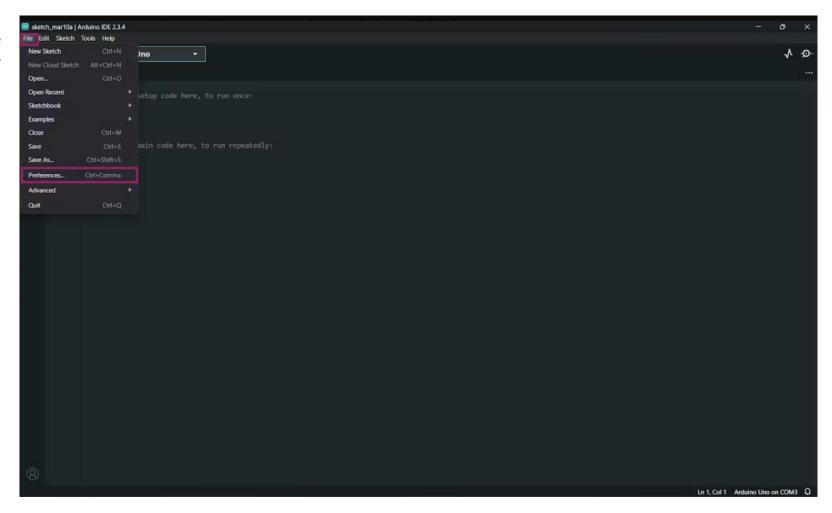
restricted



https://github.com/infineon/hackathon



- 1. Download Arduino
- https://www.arduino.cc/en/software/
- Open Arduino
 - File → Preferences







Insert Link

https://github.com/Infineon/arduino-core-psoc6/releases/latest/download/package_psoc6_index.json

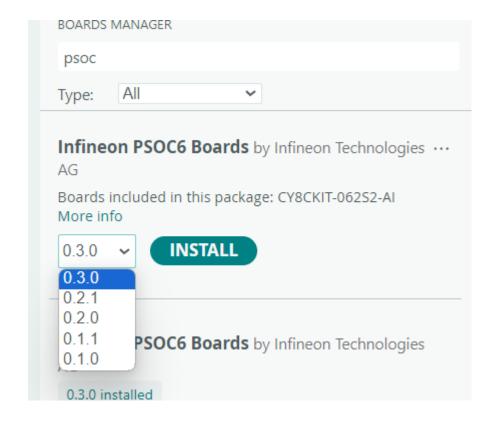


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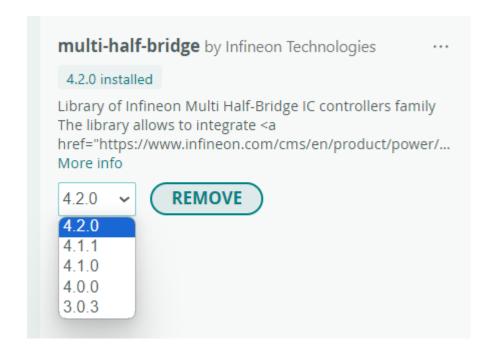


- Select the right version
- Version 0.3.0





- Libraries:
 - Multi-half-bridge (4.2.0)
 - Arduino_BMI270_BMM150.h (1.2.1)with <u>ZIP file</u>





Maybe you need it later



