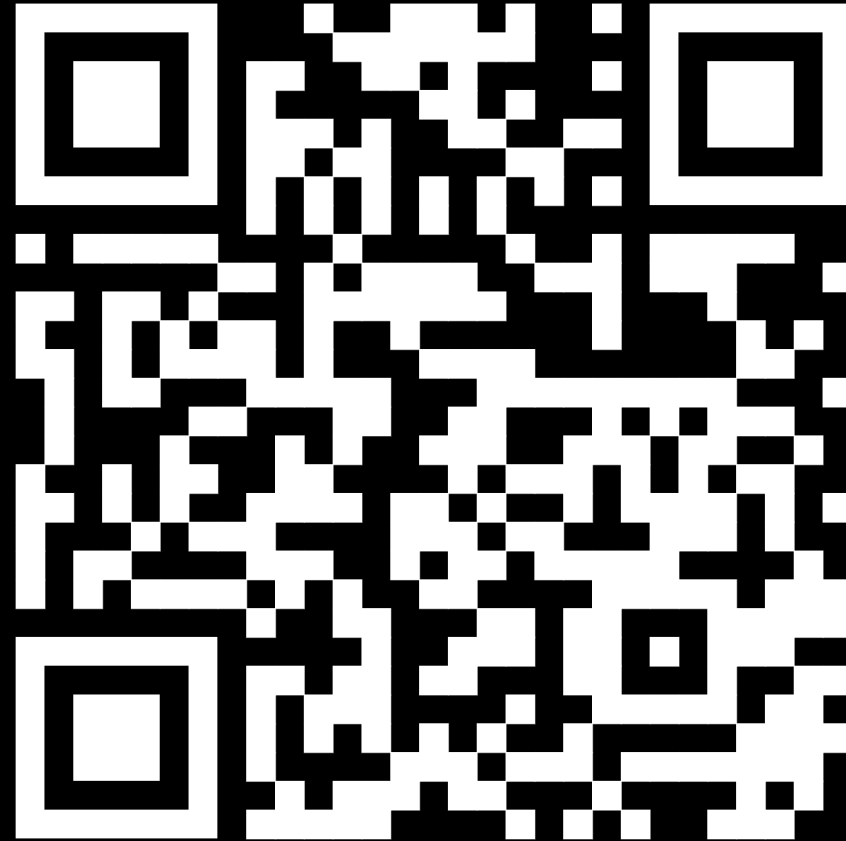


# Core of Embedded Systems & Communication Interface

Rithul Kamesh – PES1UG23EC249

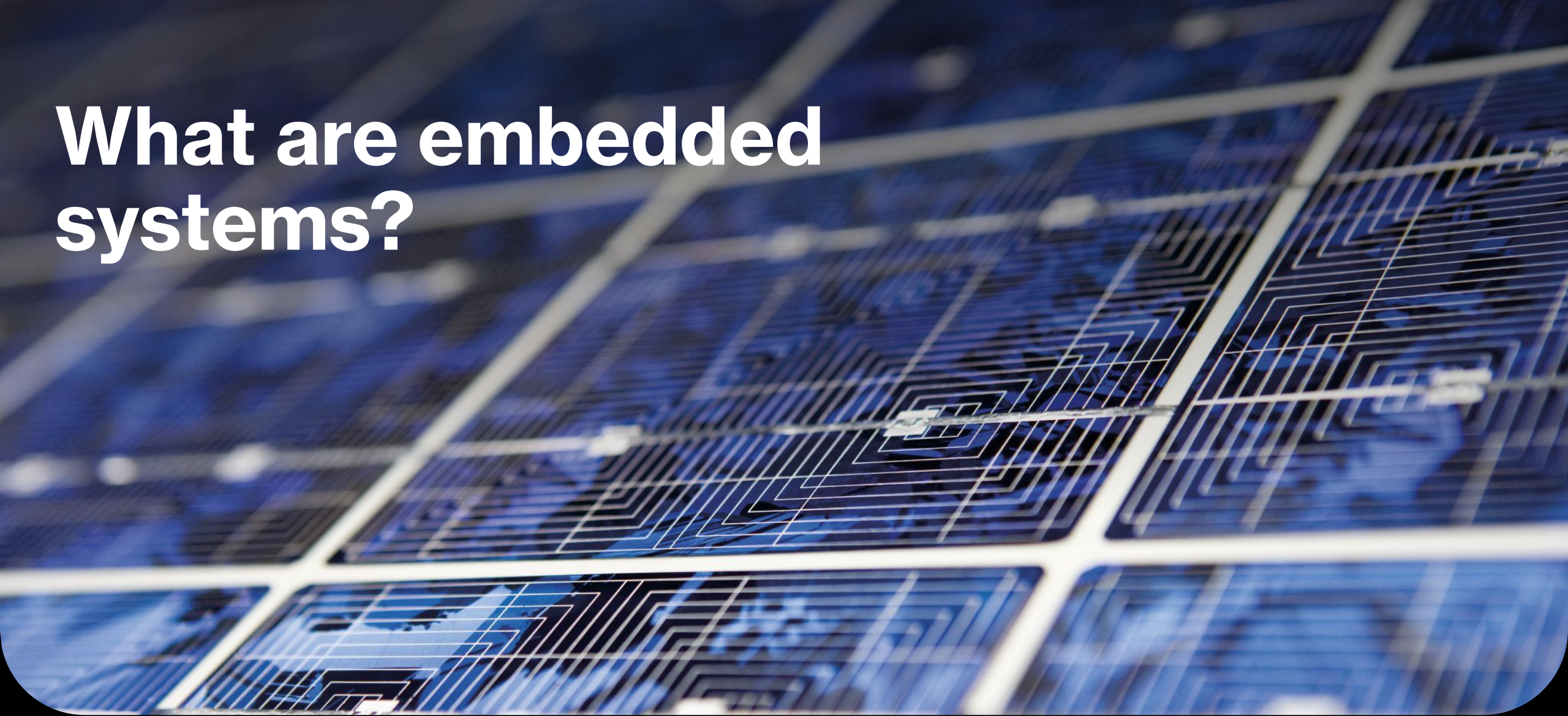
# Slides



[https://rithul.dev/epd\\_sem2\\_slides](https://rithul.dev/epd_sem2_slides)



# What are embedded systems?



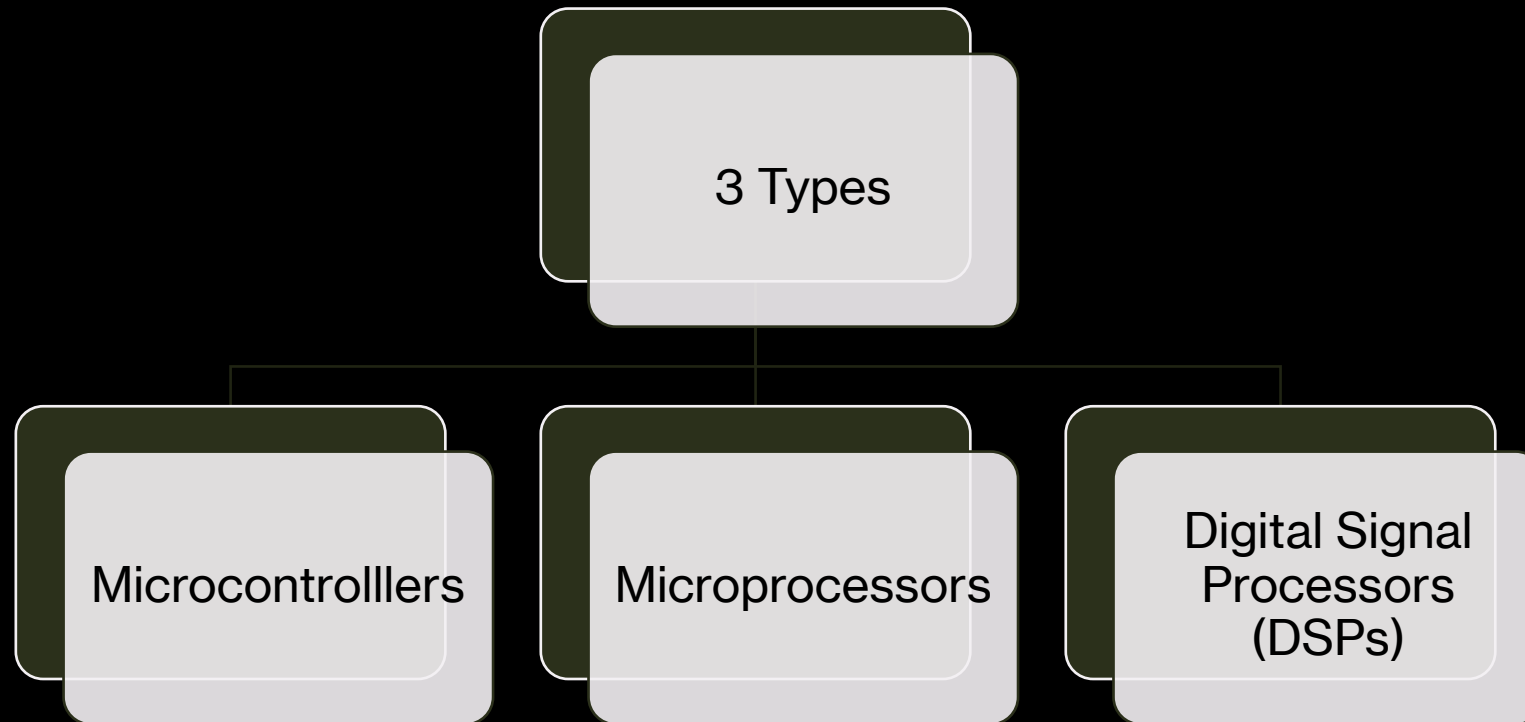


device



You oversized vermin...

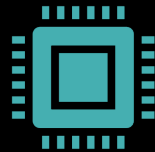
# Processors



# Microprocessors



One Silicon Chip



Dependant  
Component

I/O  
ROM/Flash  
RAM, Counter,  
Timers etc.,



# Microcontrollers



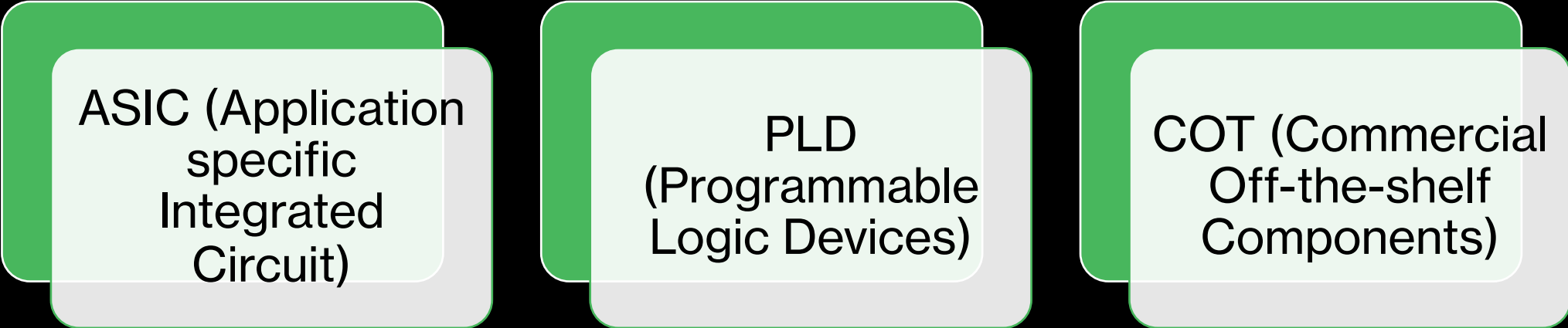


# DSPs

- Fulfills demands and power constraints
- microprocessor



# Other components



ASIC (Application  
specific  
Integrated  
Circuit)

PLD  
(Programmable  
Logic Devices)

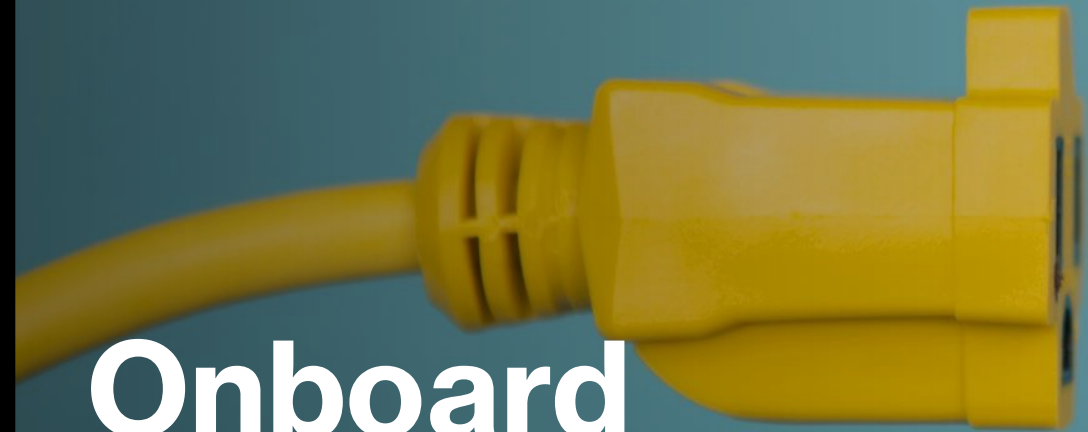
COT (Commercial  
Off-the-shelf  
Components)

# Communication Interface

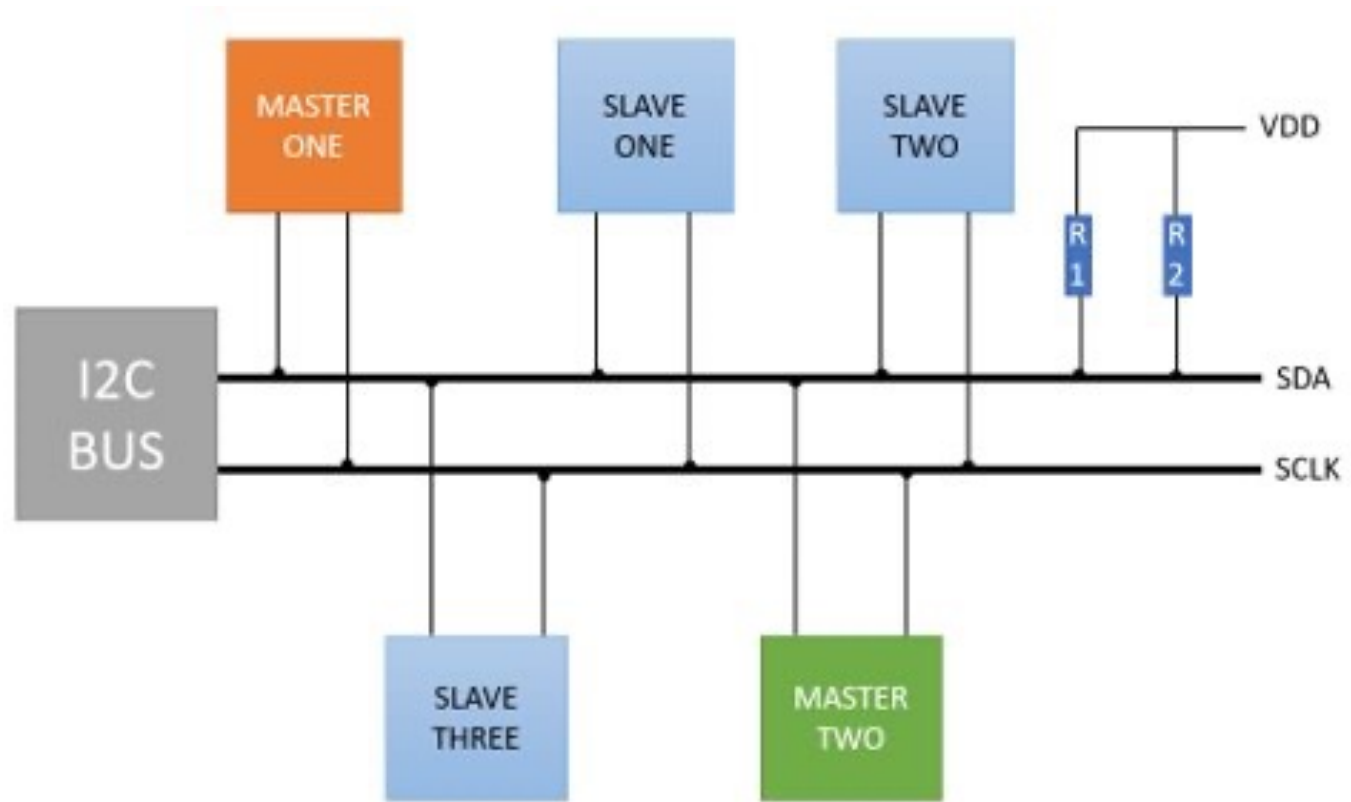
Onboard  
Communication

External  
Communication

# Onboard Communication





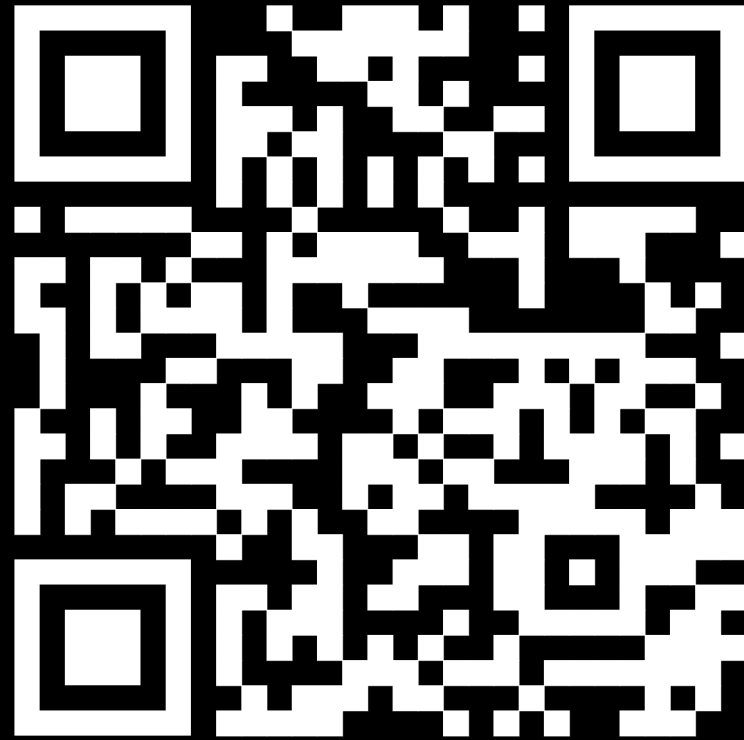


# I2C

Inter Integrated Circuit

# External Communication

# Thank you



[https://rithul.dev/epd\\_sem2\\_slides](https://rithul.dev/epd_sem2_slides)