

# Open time

the key word is "browse" the datasheet

multiple projects failed last year due to unknown reasons  
blacklisted in our lab  
try ESP32 C6  
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I've only used the esp32's for test but I had a lot of problems with a couple SAMD21 xiaos a while back.

I only use xiaos for testing these days.

For Datasheet Newbies...seek and find the following...

- What chip?
- What speed (indicated in MHz)?
- What flash/SRAM memory (for storing programs)?
- How many GPIO pins?
- How many Analog pins?
- What communication protocols does the board "speak" (UART, ISP, SPI, I2C, I2S, etc.)?
- Does it have an ADC?
- What voltage requirement for the microcontroller?
- What is the microcontroller's Logic Voltage?
- What Voltage and Current can the GPIO pins OUTPUT...and tolerate? ...for starters

if you haven't started one...start your personal FabAcademy Jargon Dictionary.

micro-controllers datasheets are super overwhelming, but once you go into inputs and outputs you won't have a choice but really get into them. thankfully they're shorter.

How I plan to do it: I would go through the data sheet and note down what I found interesting, just like "oh see, the esp32 c3 has this little feature". I would consider the data sheet reading documentation "playing around with the data sheet" so to say. less as an exhaustive summary of the data sheet.

## Additional Tips

Teaching from leo-kuipers

Notes from Nicolas Decoster

# Some interesting tabs I have open

pieter-hijma leo-kuipers

getting-started-with-arduino-ide

a-guide-to-making-the-right-microcontroller-choice

ROSÉ & Bruno Mars - APT. (Lyrics)

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