



# Computer Science

## **Spring 2025: CSCI 181RT** Real-Time Systems in the Real World

### **Lab 1**

Wednesday, January 29, 2025  
Edmunds Hall 105  
1:15 PM - 4:00 PM

Professor Jennifer DesCombes

# Announcements

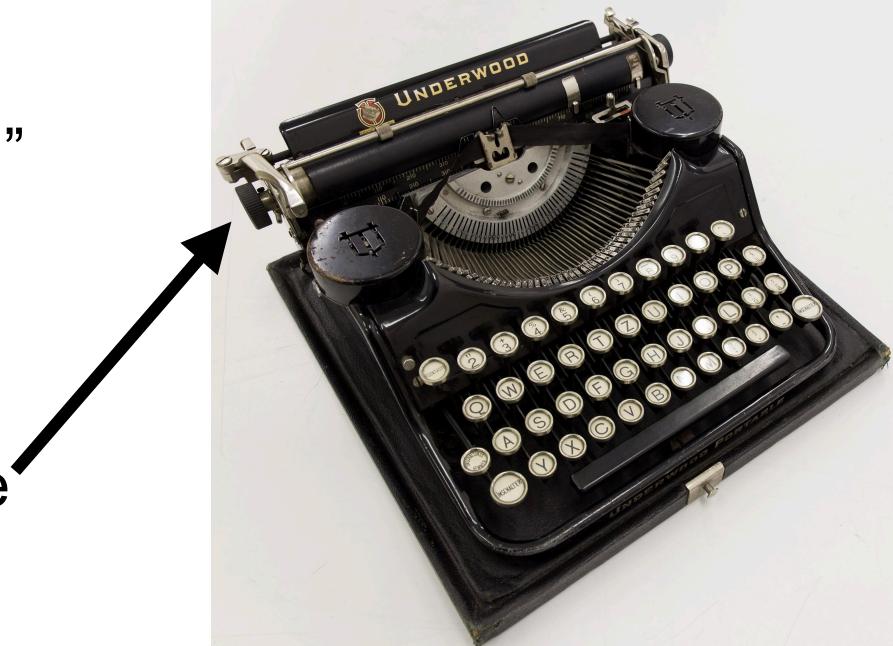
- Mentor Session
  - Neil Chulani
  - email [njcf2022@mymail.pomona.edu](mailto:njcf2022@mymail.pomona.edu)
  - Time: 1:00 - 3:00 - Every Sunday
  - Where: Edmonds 105 (here)

# Assignment - Lab Preparation

- Online C Compilers - A Quick Survey
  - [https://www.onlinegdb.com/online\\_c\\_compiler](https://www.onlinegdb.com/online_c_compiler)
  - <https://www.jdoodle.com/c-online-compiler>
  - <https://www.scaler.com/topics/c/online-c-compiler/>
  - Others?
- If you are just learning C:
  - Try some simple control logic and variable use
- If you are competent at C (self rated 5 or above):
  - Work with each of these tools to determine which ones are best as character input from a keyboard - no timeouts, etc.

## Lab 1 Goals - Primary

- Write, Compile and Execute “Hello World” Program
  - Display in Terminal Window
  - Can Use Any Resources Available
  - Can Use Each Other as Resource (Collaboration)
- Add Character Input from Terminal
  - ‘H’ or ‘h’ - Redisplay “Hello World”
    - Include CR and LF?
  - ‘Q’ or ‘q’ - Quit (terminate) Your Application
  - Character Input Without Carriage Return (Enter Key)



## Lab 1 Goals - Secondary

- Install Development Suite for Evaluation Board

CURIOSITY PIC32MZ EF 2.0 DEVELOPMENT BOARD

Microchip Part Number: DM320209

<https://www.microchip.com/en-us/development-tool/DM320209>

<https://ww1.microchip.com/downloads/aemDocuments/documents/MCU32/ProductDocuments/UserGuides/PIC32MZ-EF-2.0-Development-Board-Users-Guide-DS70005400.pdf>

- Development Tools Link [ It takes a village ]

<https://www.microchip.com/en-us/tools-resources/microcontroller-microprocessor-tools>

- MPLAB X IDE
- MPLAB XC Complier