

CENG 5434 Microcomputer Systems Design HW1

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Homework 1 Due August 31, 2022

- I. Please Review the Website presentations from the first class
- II. Watch a few YouTube presentations and do a small write-up (Assignment Below):

1. **History of Embedded Systems** 45,444 views - Good for Interviews to know this.
9:57 Published on Apr 14, 2017

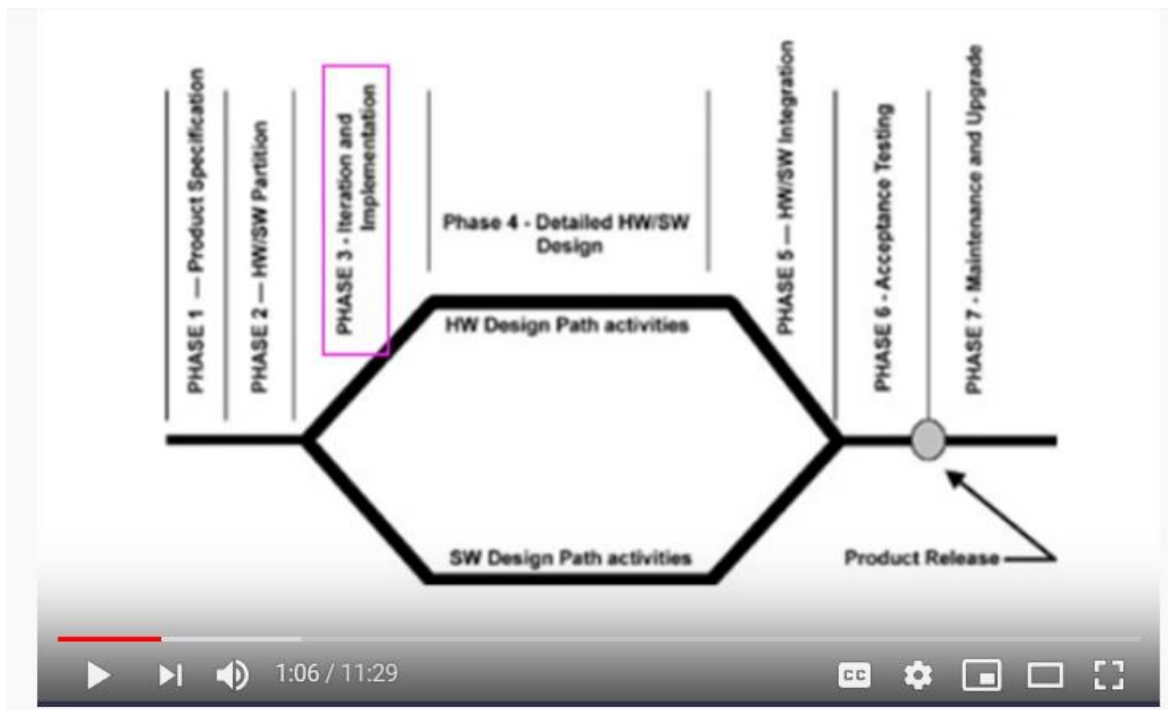
<https://www.youtube.com/watch?v=Xyn0Oh5jITc>

[MicroprocessorHistory](#)

2. **Embedded System Development Life Cycle** 11:29

<https://www.youtube.com/watch?v=vd9ykB7fdmI>

(See More for a Table of Contents)



These two go along with our website – System and Product Design and Microprocessor history.

3. Five different Presentations on Internet of Things

Internet of Things [1/5]: Devices and Local Networks 36,333 views

<https://www.youtube.com/watch?v=SDJVFr4VUHA> 6:10

Internet of Things [2/5]: Embedded Devices 6:19

<https://www.youtube.com/watch?v=hMPqowfFruo>

Internet of Things [3/5]: Network Protocols and the Internet

<https://www.youtube.com/watch?v=zveRq0wCSKM>

Internet of Things [4/5]: The Cloud

<https://www.youtube.com/watch?v=l7wQrSBszNc>

Internet of Things [5/5]: The IoT and the RTOS

<https://www.youtube.com/watch?v=SmwhrLzVGQw>

Assignment:

Give a short summary of the Videos of 1 and 2. A couple of paragraphs in your own words for each should be fine. Also, make a brief list of the highlights. 25 Points Each Essay

Part3. Look at Video 1 and three other of the short videos on IOT and comment on them. A couple of paragraphs in your own words and a list of highlights for the ones you pick should be fine. Reference the videos you summarize. 50 pts.

You can click on More for many videos to see a summary of the talk. Some have Transcripts

(It would not hurt to see all 5 of these short videos since the IOT devices will eventually number in the trillions!. Good job opportunities)