Embedded Controller Programming II

Conclusion & Student Projects

Ken Arnold

1

Tonight's Agenda:

- Final Exam Info
- Where to Go From Here...
- Thanks for Taking the Class!
- Student Project Presentations

2

Final Exam

- *Details will be e-mailed tomorrow*
  - Take exam anytime from the date of announcement up to 7 days later
  - <u>*When you're ready*</u>, request the exam with e-mail to exam@hte.com with the text "ecp2final" on the subject line
  - You will receive the exam in PDF and Word DOC format within a few minutes
  - You have 3.5 hours to complete and return it
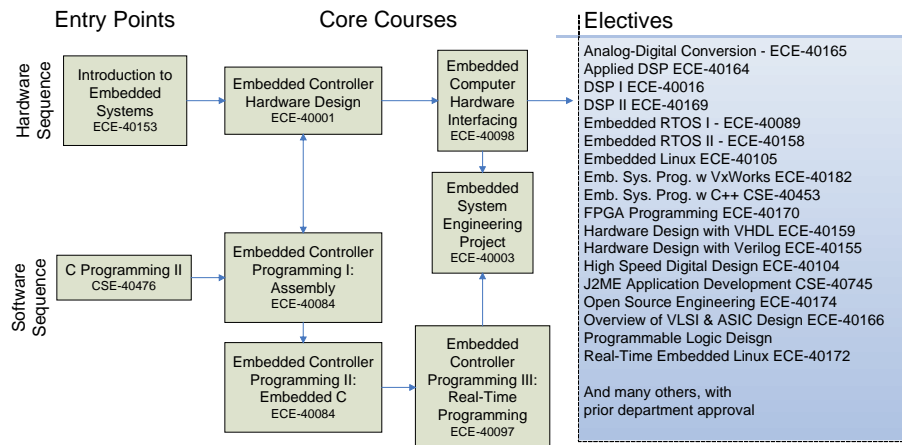
3

Where To Go From Here

- Some Potential Follow-up Courses:
  - Real Time Programming
  - Real Time Embedded Operating Systems
  - Electronics/Digital Logic
  - Embedded Controller Hardware/Interfacing
- Embedded Certificates: (see catalog)
  - Embedded: Software, Hardware, & Systems
  - Professional Certificate

4

Embedded Course Map

Entry Points **Core Courses** **Electives**

Hardware Sequence

- Introduction to Embedded Systems ECE-40153
- Embedded Controller Hardware Design ECE-40001
- Embedded Computer Hardware Interfacing ECE-40098
- Embedded System Engineering Project ECE-40003

Software Sequence

- C Programming II CSE-40476
- Embedded Controller Programming I: Assembly ECE-40084
- Embedded Controller Programming II: Embedded C ECE-40084
- Embedded Controller Programming III: Real-Time Programming ECE-40097

Electives

Analog-Digital Conversion - ECE-40165
Applied DSP ECE-40164
DSP I ECE-40016
DSP II ECE-40169
Embedded RTOS I - ECE-40089
Embedded RTOS II - ECE-40158
Embedded Linux ECE-40105
Emb. Sys. Prog. w VxWorks ECE-40182
Emb. Sys. Prog. w C++ CSE-40453
FPGA Programming ECE-40170
Hardware Design with VHDL ECE-40159
Hardware Design with Verilog ECE-40155
High Speed Digital Design ECE-40104
J2ME Application Development CSE-40745
Open Source Engineering ECE-40174
Overview of VLSI & ASIC Design ECE-40166
Programmable Logic Deisgn
Real-Time Embedded Linux ECE-40172

And many others, with prior department approval

Rev B - KA 050817

5

Presentations

- Introduce Yourself
- Describe What Your Project Does
- High Level Description of How it Works
- Optional Demonstration
- You Have ~10-15 Minutes!!
    - Please watch the time!

6

Conclusion

- If you find something of interest to future students...
- If you want to know about...
- Other Learning Resources
- Thank You for taking this course!

7