EENG 462, Embedded Real-Time Control

The term “embedded system” typically refers to a processor that is programmed to perform duties specific to the instrument/device that it is embedded in. Such systems live at the boundary between hardware and software. They often have real-time requirements and use feedback to control something. This course is about such systems and thus covers a wide range of topics. I hope you will find it to be an interesting course.

No text is required but there is a course fee to cover a lab kit. Detailed lecture notes will be provided on the course website. The course will be taught entirely by Zoom. Please read the Canvas home page for more information.

General Information
Instructor: Paul Schimpf, Professor, pschimpf@ewu.edu
Canvas: canvas.ewu.edu/courses/1532943
Class Hours (via Zoom): M-F, 9-9:50 am, W 10-10:50 (note the change from Friday at 10)
Office Hours (via Zoom): TR, 10-10:50 am (note this means I’m available at 10 TWR)

Grading:

9 Lab & H/W Assignments (8 pts ea):	72%
Midterm Project:	14%
Final Project:	14%
Total	100%

The instructor may modify this based on overall class performance, but expects to use the following grade scale, which is somewhat more forgiving than the default scale. Scores will be rounded to the nearest percentage:

94% - 100%	A	72% - 75%	C
90% - 93%	A-	69% - 71%	C-
87% - 89%	B+	65% - 68%	D+
83% - 86%	B	60% - 64%	D
79% - 82%	B-	57% - 59%	D-
76% - 78%	C+	< 57%	F

Due Dates and Late Work
Submissions that do not compile or immediately crash will receive a score of 0. Due dates and times will be according to the schedule on Canvas. No later work will be accepted, so please plan accordingly. In the interests of fairness, no exceptions will be made except under extreme circumstances such as family emergency, weather emergency, or serious illness, and you may be asked to provide evidence of such.

Academic Integrity
All students are expected to act in accordance with the IEEE Code of Ethics and the University policy for academic integrity. These policies can be found at: access.ewu.edu/undergraduate-studies/academic-integrity and: https://www.ieee.org/about/corporate/governance/p7-8.html. Collaboration on Lab assignments (but not homework) is fine, so long as you are not copying and pasting code from others verbatim. Please read the Cheating FAQs document posted on the course Canvas site.

Disability Accommodation
Your ability to succeed in this class is important to me. If you already have an accommodation plan through Disability Support Services (DSS) and would like to use your approved accommodations in this class, please let me know as soon as possible. If you do not have an accommodation plan but have a temporary health condition or permanent disability that may require an accommodation, please contact DSS at dss@ewu.edu or 509-359-6871. You can also visit their website at https://inside.ewu.edu/dss.

Religious Accommodation
If you would like to request an accommodation for reasons of faith or conscience, please refer to EWU’s policy on Holidays and Religious Accommodations available at https://inside.ewu.edu/policies. Accommodations must be requested within the first two weeks of this course using the Holidays and Religious Accommodations Request form available at https://inside.ewu.edu/student-life/resources/holidays-and-religious-accommodations-request.