General Information

EE360: Class Time  Meets two days a week (MF) for 5 hours each

Demo Time  One demo every two weeks to show progress of the work done as a part of the industry project or research lab work.

Classroom  LH-2

Office  TBA

Contact  ramesh@mail.utexas.edu

Pre-requisites  None

Office Hrs  Instructor: Tue, Wed and Thu from 1-2pm

Website  http://users.ece.utexas.edu/~rverraballi/sa2014/

Catalog Description

EE360: Special Problems in Electrical Engineering approved by the department

Overview

This course involves one of two possible options: (i) Work on a Industry sponsored project at the IIT campus with reports/demos made to the company, (ii) Work at a research lab at the IIT campus directed by a Faculty and other Graduate students.

Schedule

The detailed schedule of activities for the class are given in the calendar

Grading Criteria

<table>
<thead>
<tr>
<th>Task</th>
<th>Date</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weekly Reports (10)</td>
<td>Due online every Friday (5% each report)</td>
<td>50%</td>
</tr>
<tr>
<td>Project Completion</td>
<td>9th week</td>
<td>10%</td>
</tr>
<tr>
<td>Project Demo and Presentation</td>
<td>10th week</td>
<td>15%</td>
</tr>
<tr>
<td>Final Report</td>
<td>10th week</td>
<td>25%</td>
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</tbody>
</table>
Companies

- Xilinx, Broadcom, 8C Healthcare and Ineda Systems.

Research Projects

1. **Xilinx**: Matlab simulation of a Wireless Base Station frontend module
2. **Xilinx**: Portable Calendar Viewer on a Zedboard with pMod OLED, pMod Wifi/BT
3. **Xilinx**: PCIe based secondary boot loader
4. **Broadcom**: uBoot Linux boot loader with integrity check on a Raspberry Pi.
5. **Broadcom**: Packet capture and analysis using a Raspberry Pi.
6. **Ineda Systems**: Sensitivity study of an Infra-red technology based Heart-Rate Monitor.
7. **8C Healthcare**: Medical device.