Computer Systems Architecture

CSE 560M

Prof. Patrick Crowley
Plan for Today

- Introduction
- Preliminaries
- Course Goals
- Course Overview
- Questions?
What do I do?

• I am a **computer architect**

• I **teach** students how to build computers

• I **build new** kinds of **computers** that allow people to **work and communicate** in new and better ways

• I write a lot of software
Course Goals

1. Cultivate an advanced understanding of computer architecture

2. Continue to develop skills for independent research and scholarship
## Course Overview

### Tentative Course Schedule

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<td>Principles of Quantitative Analysis</td>
<td>HP1, VL1</td>
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<td>Instruction Set Architecture</td>
<td>HPB, VL2-3</td>
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<td>Instruction Level Parallelism(ILP) in Hardware</td>
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Questions?
Assignment

• HW #0, due next week

• Readings
  – Monday
    • H&P: Preface & Ch. 1
    • V&L: Ch. 1
  – Wednesday
    • H&P: App. B.1-B.7
    • V&L: Ch. 2
    • Turner & Zar VHDL concepts tutorial