Software Engineering
Summer Interns

A WinWin for All
Software Engineering

“Software Engineering:” The disciplines which distinguish the coding of a computer program from the development of a software product

<table>
<thead>
<tr>
<th>Computer Science</th>
<th>User Applications</th>
<th>Economics</th>
<th>People</th>
<th>CS Focus</th>
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</thead>
</table>

- Accommodate new tools and techniques
  - Web browsers, GUI prototypers, WinWin, Spiral processes
- Integrate all these considerations Via Model-Based (System) Architecting and Software Engineering (MBASE)
SE Summer Interns

Graduate students

Course Background

- CS577a [some with b]: Software Engineering
- CS510: Software Engineering Economics
- CS665 [some]: PSP with Project

Skills and Tools

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<table>
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<tbody>
<tr>
<td>MBASE</td>
<td>Various languages</td>
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<tr>
<td>Rose 98i</td>
<td>Various levels of web expertise</td>
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<tr>
<td>COCOMO II</td>
<td>some with WinWin or EasyWinWin</td>
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<tr>
<td>MS Project</td>
<td>some with Personal Writing Process</td>
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<tr>
<td>Excel</td>
<td>some with Personal Excel Process</td>
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Benefits for Students

See real-world software engineering

Work experience

Basis for comparison
- University view of Software Engineering
- Industrial view of Software Engineering

Explore a potential employer and/or type of work

Accomplish something "useful"
Affiliate Benefits

Intelligent, trained(?) workers

- Most hit the road running (but still need . . . .)
- Some bring in new skills and tool-experience

Potential employee exposed to work context

"Support" through CSE, especially for our research or education areas
CSE Benefits

Feedback on what happens to our students

Verification we are on track with respect to work context