

AI Impact on ASE 485

- We are experiencing the biggest technological shift since the advent of the personal computer and the internet.
- Maybe (much) bigger than that.
- AI is transforming the way we work, learn, and live.
- AI is changing the software engineering landscape dramatically.

Adapting to the AI Era

- We have updated the course dramatically to meet the challenges and opportunities of the AI era.
- We virtually rebuilt the entire course from scratch.
- The focus is shifted to system design, architecture, and most importantly, problem solving using AI tools effectively.
- The meaning of coding/programming is changed dramatically, however, it is still important to understand the code.

Key Updates for ASE 485

We use AI to attain our goals:

- We keep focusing on two major topics
 - AI-Driven System Design and Architecture
 - Learning with the Help of AI Tools

We do something that becomes important in the AI era:

- Publish/Deploy to show/demonstrate your work to the world.

Basic Rules of using AI Tools in ASE

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- AI tools are your personal tutors, assistants, pair programmers, and coaches.
- You are encouraged to use AI tools to help you learn and complete your projects.
- They are co-pilots, when it becomes your pilot, and you become a passenger, you are in deep trouble.

When you use AI tools, it means you know what you are doing

- Using AI tools without understanding the results is regarded as cheating.
- ASE 220 story: about 10% of students were caught cheating using AI tools in ASE 220.
 - They just used AI and copied the results without knowing what they were doing.

Be the **GOOD** Problem Solver, Never be the replaceable

- Don't be that student. Don't waste your money and time.
- Integrity is everything in software engineering profession, if anyone loses integrity, that person is finished as a software engineer.
- You are smart, and you have two choices:
 - Use AI tools to become a better problem solver.
 - Just click the button and copy to be the person who cannot solve problems without AI tools.

- The choice is yours. Choose wisely.
- You cannot fool yourself; your future self will know the truth, and will be grateful if you make the right choice.