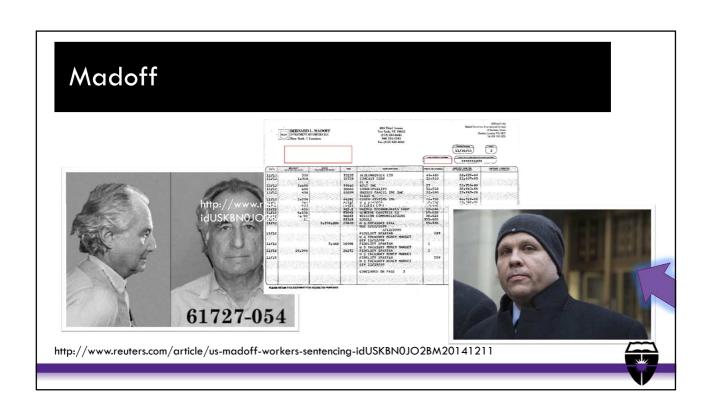
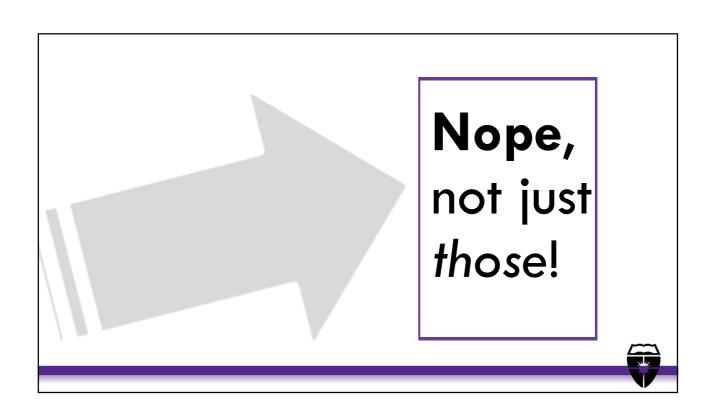


Therec-25

1985 – 1987 Radiation Therapy









QUICK SURVEY

What did Matthias Müller (from VW) know and when did he know it? (Informal Survey)

[] Knew exactly what was going on and what was required to make the ship date. (Approved or ordered)

[] Discovered the "trick" after shipment



What did Matthias Müller (from VW) know and when did he know it? (Informally asked)

- Most Faculty responded:
 - Knew everything, very early.
 - High involvement.
- Most Engineers when asked
 - Knew nothing until later.

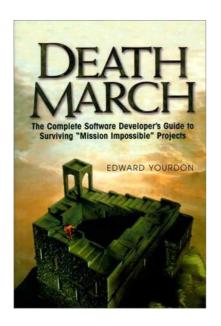




Situational Judgment

The action are you going to take based on a given situation





In project management, a **DEATH MARCH** is a project that the participants feel is destined to fail, or that requires a stretch of unsustainable overwork









PSYCHOLOGY OF CROWD

- Bystander Effect: "someone else will take care of it"
 - Groupthink
 - Deindividuation



PSYCHOLOGY OF INDIVIDUAL

- Positive Reinforcement
- Foot-In-The-Door



It's not like we are building a bridge you know!





Situational Judgment

What would you do?



THE PRACTICE OF ETHICS: DEVELOPING VIRTUE THROUGH SMALL CHOICES



- •40% admit to plagiarism in undergraduate or graduate school
 - According to plagerism.org
- A Stanford study showed **computer science students** were especially likely to plagiarize



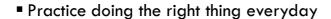
Engineering Ethics



- The first codes of engineering ethics were formally adopted by American engineering societies in 1912-1914.
- Directed engineers to concern themselves with the health, safety and welfare of those who are affected by their work
 - The so-called 'paramountcy clause'



SMALL CHOICES





- Do not shirk responsibilities of design and code reviews
- Make it easy for employees to do the right thing
- Practice "Just Culture"
- Give opportunities to do the right thing



(ACM) Software Engineering Code of Ethics and Professional Practice

- 1. PUBLIC Software engineers shall act consistently with the public interest.
- 2. CLIENT AND EMPLOYER Software engineers shall act in a manner that is in the best interests of their client and employer consistent with the public interest.
- 3. PRODUCT Software engineers shall ensure that their products and related modifications meet the highest professional standards possible.
- 4. JUDGMENT Software engineers shall maintain integrity and independence in their professional judgment.
- 5. MANAGEMENT Software engineering managers and leaders shall subscribe to and promote an ethical approach to the management of software development and maintenance.
- 6. PROFESSION Software engineers shall advance the integrity and reputation of the profession consistent with the public interest.
- COLLEAGUES Software engineers shall be fair to and supportive of their colleagues.
- 8. SELF Software engineers shall participate in lifelong learning regarding the practice of their profession and shall promote an ethical approach to the practice of the profession.

Thank you!



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