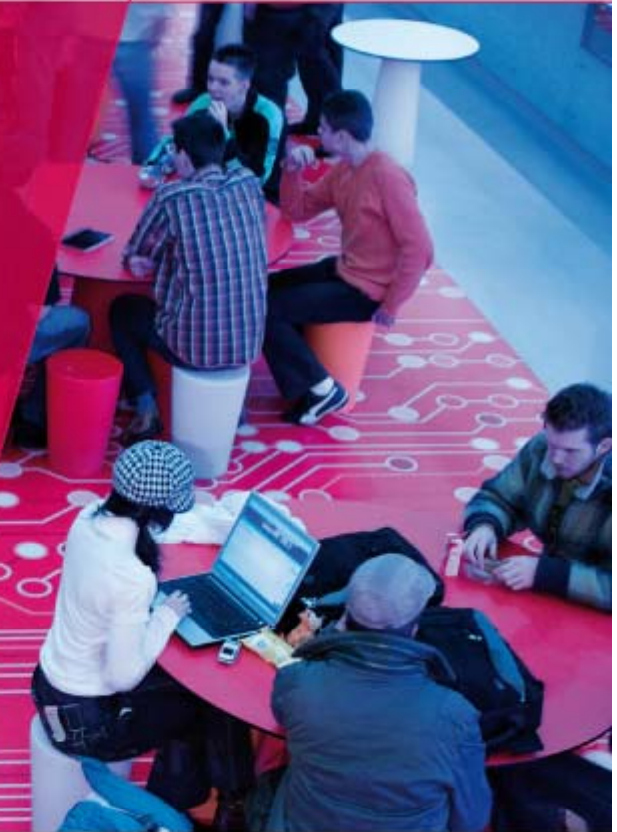


Professional Doctorate Program for Software Architects

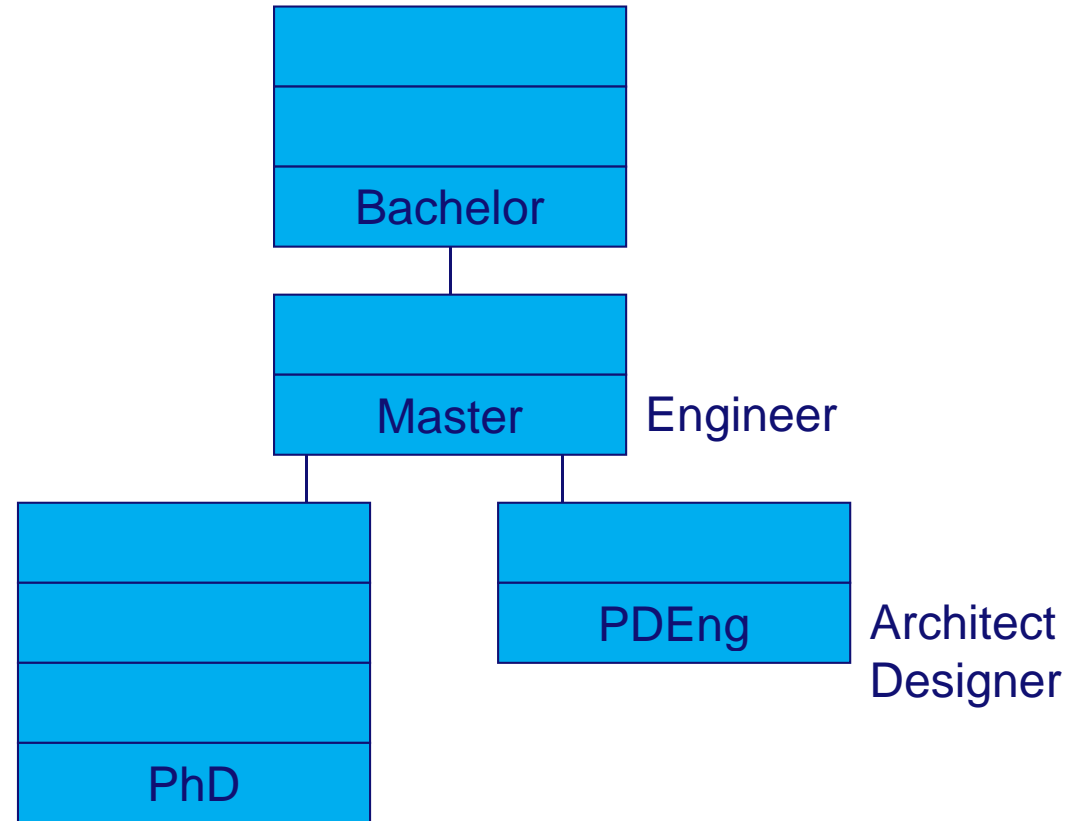
Jos Baeten
Kees van Hee
Harold Weffers



TU / **e** Technische Universiteit
Eindhoven
University of Technology

Where innovation starts

PDEng



Stan Ackermans Institute, 3TU

Software Technology

Information & Communication Technology

User System Interaction

8 others

Industry driving force: pays for projects, takes graduates.

Trainee program

- **First year: technical courses, project & mgmt skills, soft skills**
 - **Courses, in-house projects in small groups**
- **Second year: project at a company**
 - **Joint supervision**

Research vs. design

- **Why?**
- **Empirical data**
- **Theory**
- **Invariants**
- **In isolation**
- **Abstraction**
- **Analysis**
- **Logic -> truth**
- **Knowledge**

How?
Requirements
Artefact
Choices
In context
Concretization
Synthesis
Inspiration -> relevance
Useful product

Other technical universities?

UK

Sweden

< Your name here? >

Graduate school

Integrated trajectories:

$$2 + 2 = 3.5$$

$$2 + 4 = 5$$

$$2 + 4 = 4, \text{ PhD by design}$$

EIT KIC ICT

- **Berlin**
- **Eindhoven**
- **Helsinki**
- **Paris**
- **Stockholm**



FMweek

- Eindhoven, 2 - 6 nov. 2009
- www.win.tue.nl/fmweek