

The associate degree or short cycle program in IoT

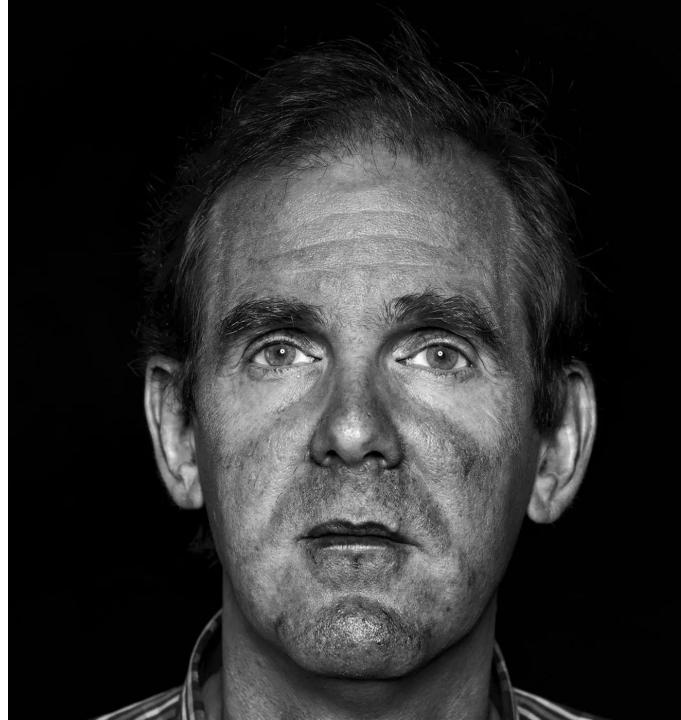
Hello!

Who am I?

- Maarten Van Lint Thomas More, Belgium
- Expertise in electronic engineering (MSc)
- Coordinator workplace learning for IoT
- Teaching embedded systems / projects

Contact?

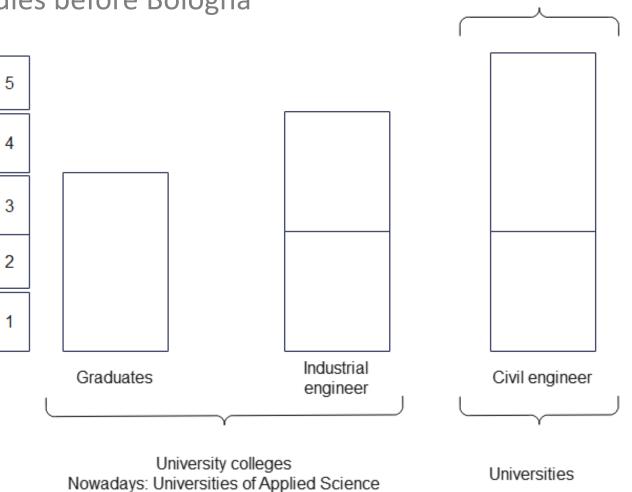
- Maarten.vanlint@thomasmore.be
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Content

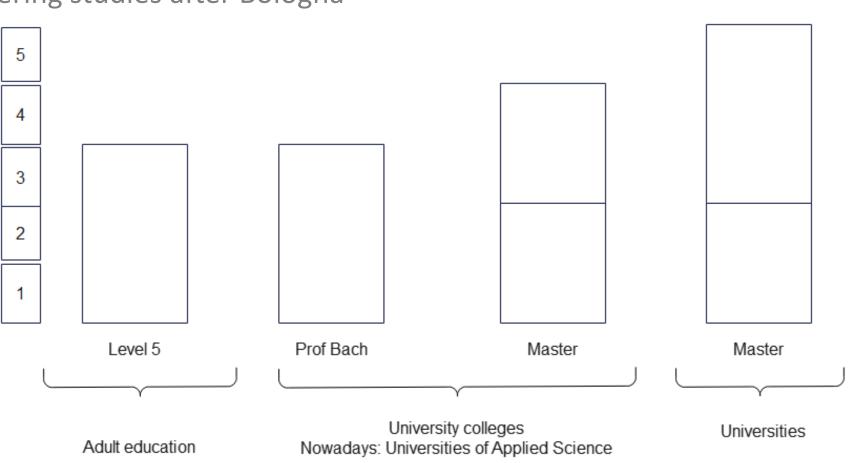
- Historical context:
 - ➢ Before and after Bologna
 - ► Level 5 or the short cycles
- Goals and requirements of the program
- Content
- Professional bachelor vs Associate degree

• Engineering studies before Bologna



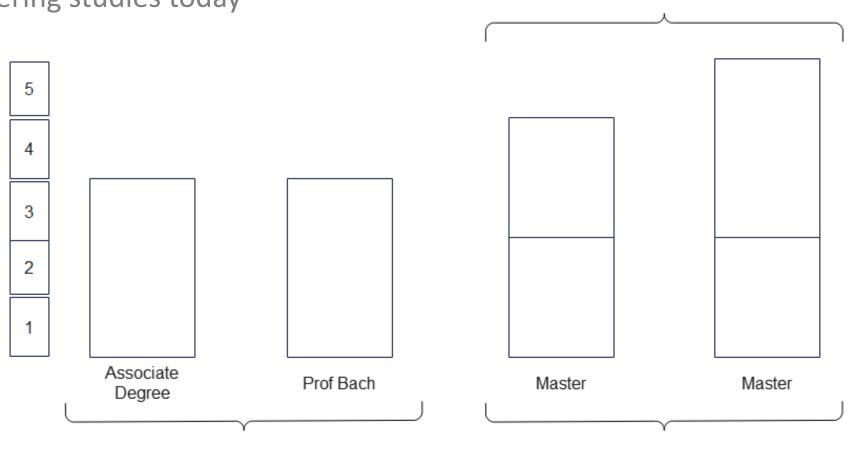
PHD

• Engineering studies after Bologna



PHD

• Engineering studies today



University colleges Nowadays: Universities of Applied Science

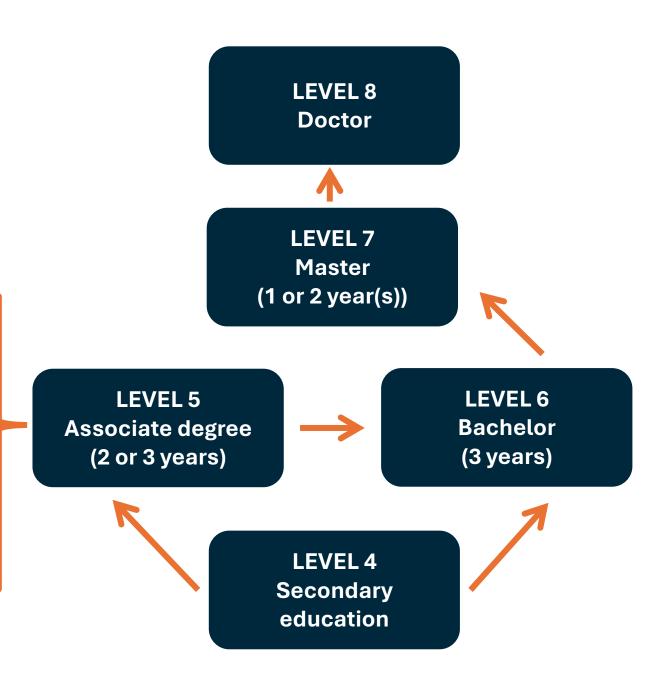
Universities

PHD

• Today from another perspective

Associate degrees in IT

- Programming
- System and Network Management
- Internet of Things



Goals and requirements of the program

• Associate degree (short cycle)

►2 years

►1/3th workplace learning

- Learning in/about workplaces
- ➢ Government-imposed (workplace learning ≠ internship)

Should be very practical

"executing jobs"

Critical opinion: is a higher education level required to just execute?

Content

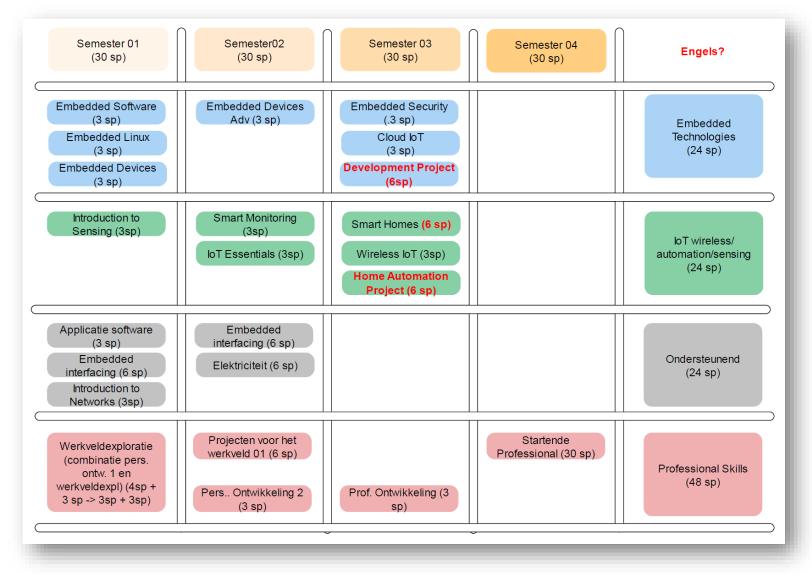
• Separate 'learning lines'

➤1 supporting technical learning line

➤2 specializing technical learning lines

➤1 learning line workplace learning & soft skills

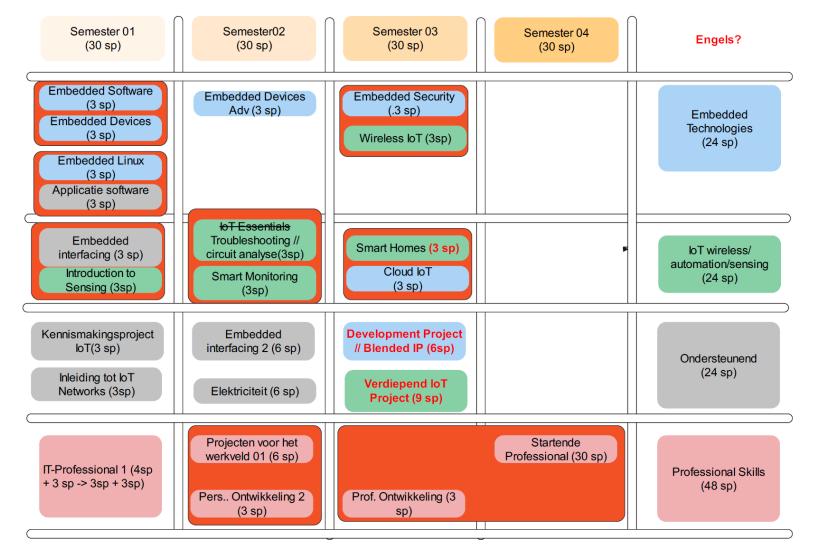
First iteration



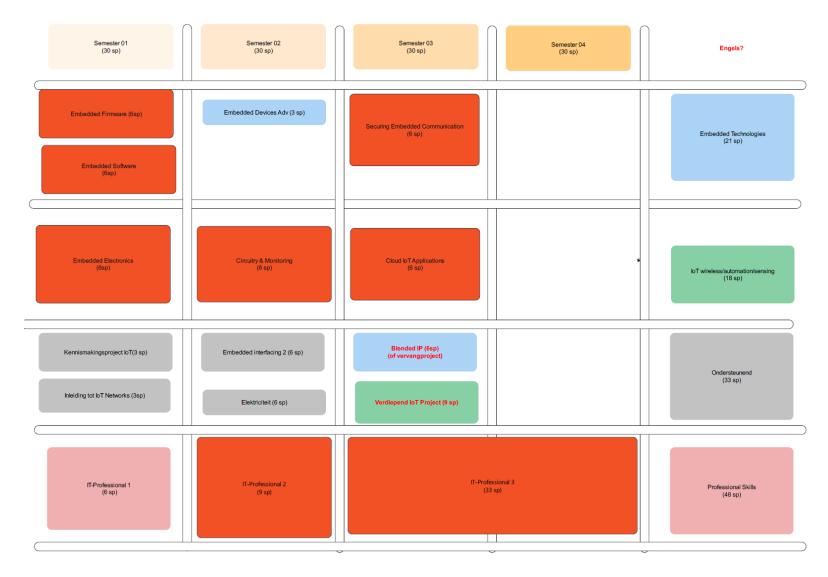
First iteration

- Soft skills
 - Students only apply soft skills where it is required
 - The separate courses
 - > The parts in workplace learning where it is required
 - Insufficient integration of soft skills
- Too much courses of only 3 study points
 - 2 x 3 studypoints = 2 x 2 blocks (of 1.5 hours per block) lectures = 4 blocks lectures/labs
 - 6 studypoints = 3 blocks lectures/labs

Final program



Final program



Associate degree vs Professional bachelor

• Prof. bach.

- Commonly known in Europe
- T shape education:
 - broader knowledge as its specialization
- Associate degree
 - Not that known
 - Might be underestimated due to the short program
 - Very specialized (only soft skills & content about their specialization)

Thanks!



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