Software Product Line Engineering

A short overview 080901
Robert Feldt

SPLE

- *"Building a family of related products by planned reuse of a general base of development assets"*

- Real-world, industrial SW development rather than just theory or tech

- Helping companies transition to ~SPLE

- Elective course, period 2, late Oct-Jan

Some Examples

- Philips Consumer Electronics SW for TVs

- Nokia/SonyEri Mobile Phones
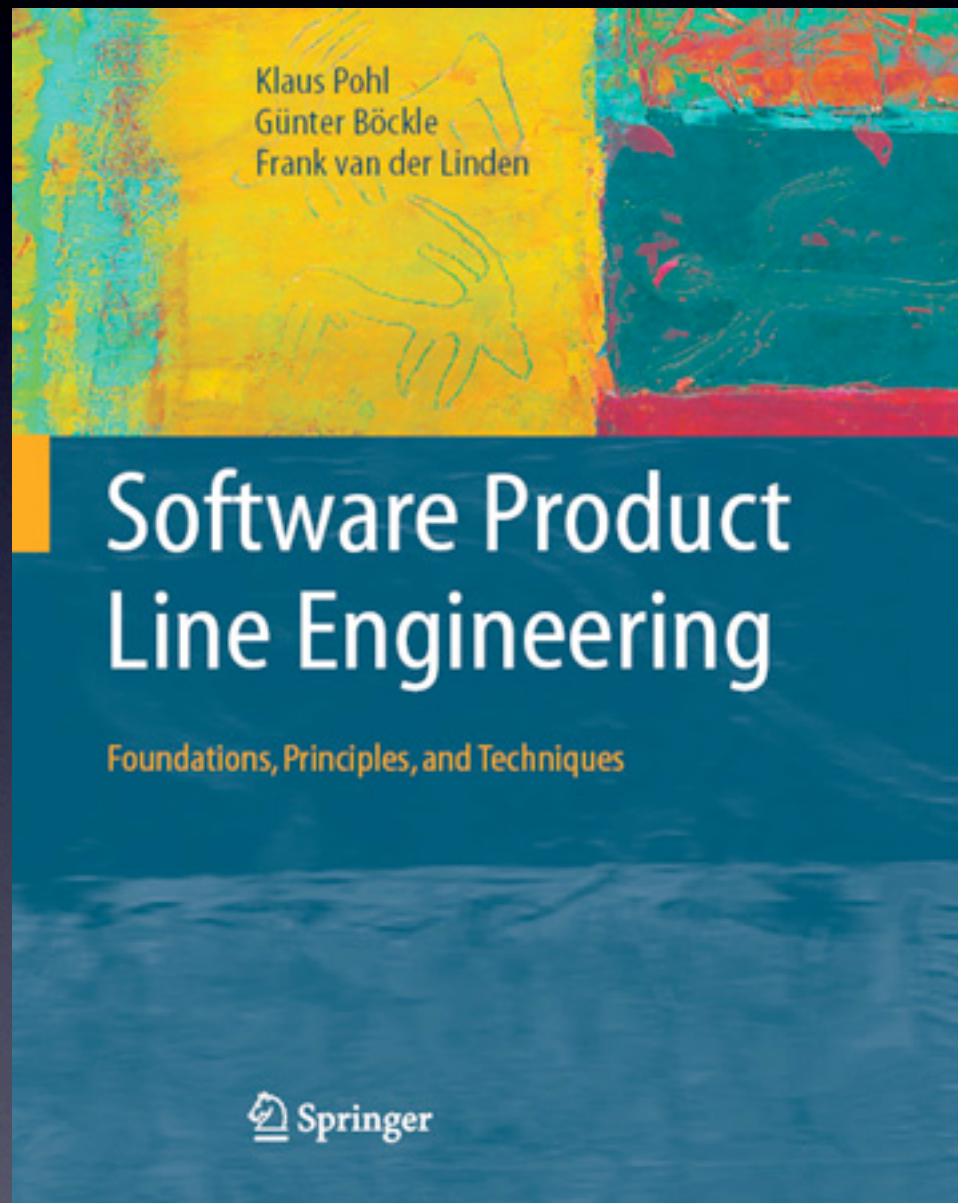
- Bosch Gasoline control systems

Why SPLE?

- Individualization/Customization: Many markets, many products

- Shorter development cycles

- Improve quality, cost and time-to-market

Course structure

- Lectures
  - Architecture, Process, Organisation, Business, SPI, ...

- Assignments (groups of 2-6 students)
  - 25+5%: SPL Case Study at Company
  - 10%: Architecture/Variability analysis

- Written Exam (individual)
  - 60%: Both theory and "online" analysis/problem solving

Material

+ research articles

Us

- Robert Feldt
- Tony Gorschek
- Martin Ivarsson