Wireless System Profile

Department of Science and Technology

Linköping University
Campus Norrköping 2014

Agenda

- Contact Information
- Program Background
- Syllabus
- Curriculum
- Master's Thesis

Contact Information

- General questions are handled by study counsellors

- Profile Coordinator
  - Prof. Shaofang Gong
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- Director of Study
  - Dr. Adriana Serban
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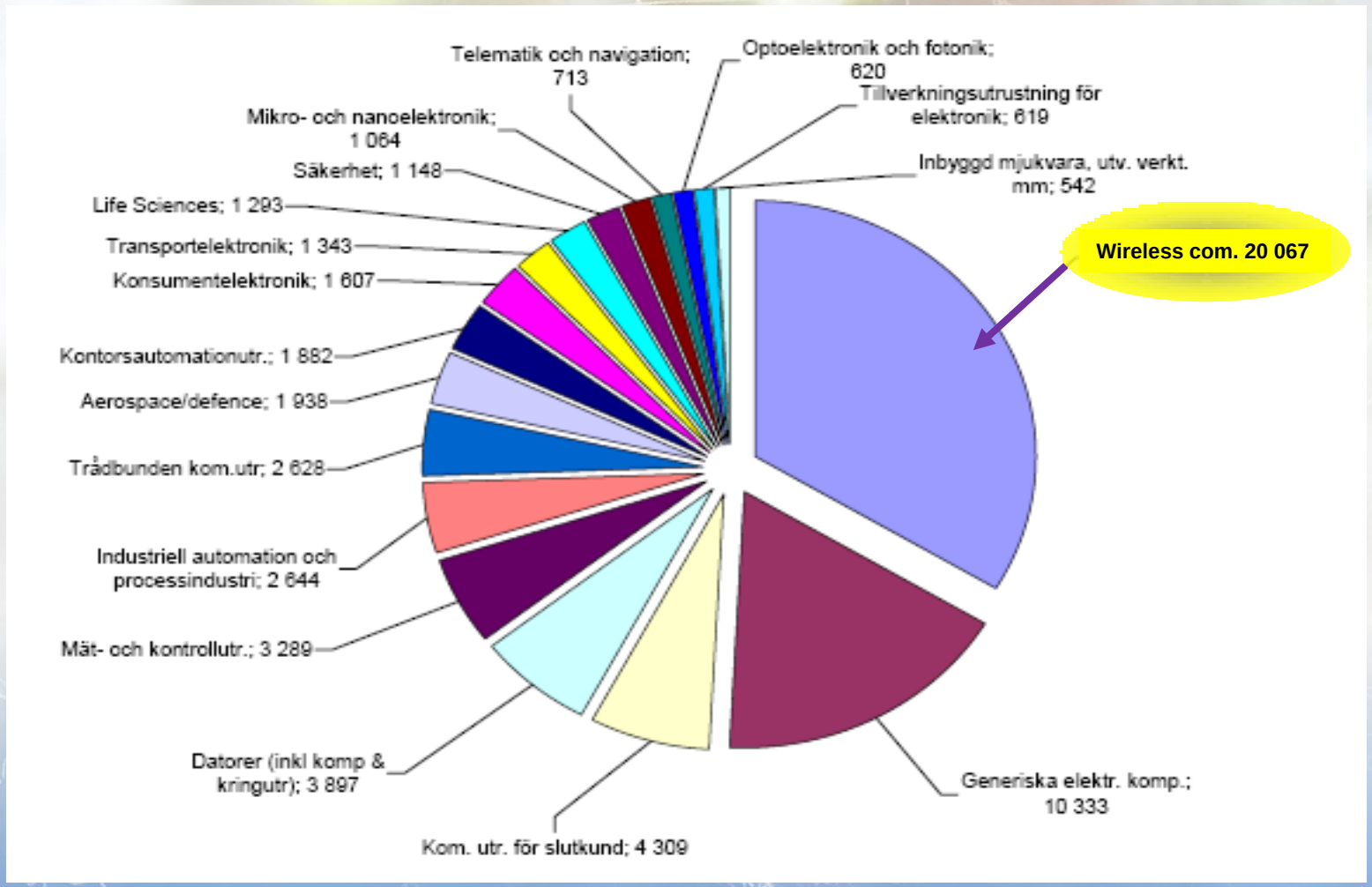
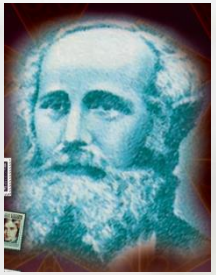
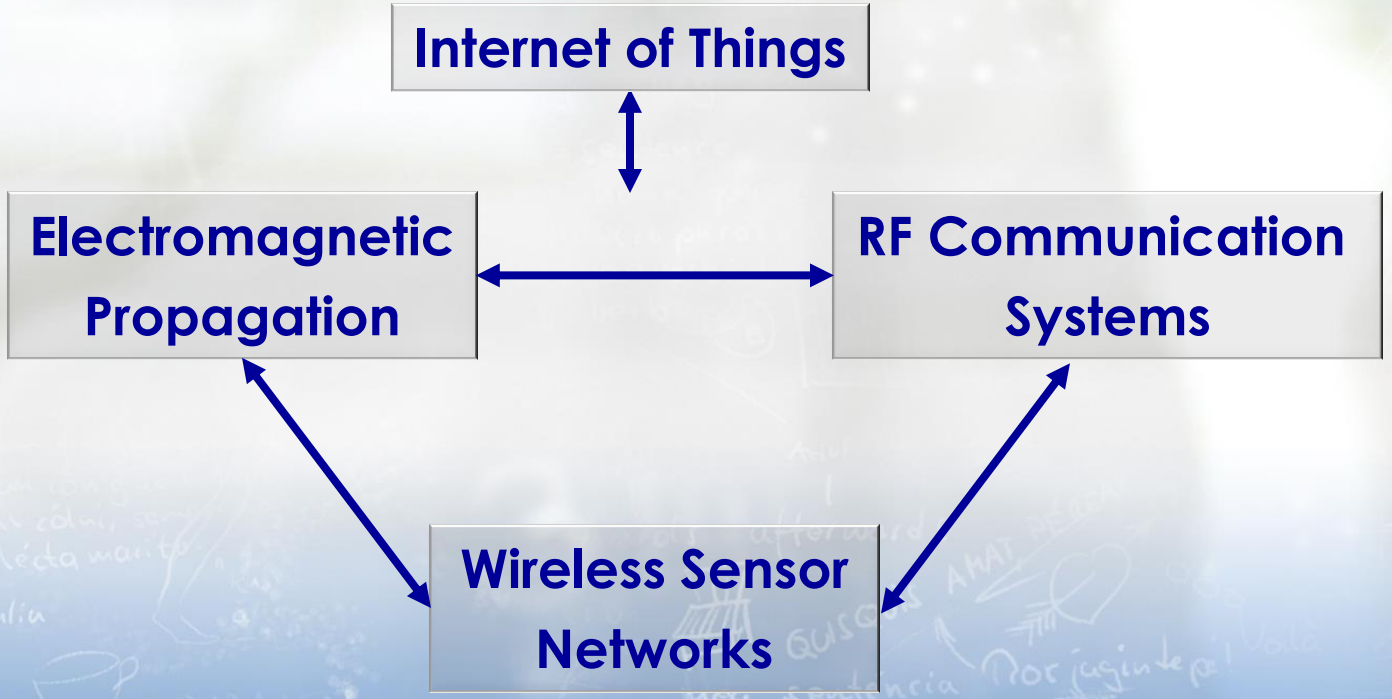
Area Potential



Profile Idea

- Multi-disciplinary approach
- Electronic system development with in depth understanding from circuit to system level





Profile Scope

Theory

Applications	Engineering Tasks	Engineering Tools
Digital communication systems	Electronic design	Analytical models
Radio Frequency systems	Planning and optimization	Simulation = Virtual experiments
Wireless sensor networks	Development	Prototypes = Real experiments
Microwave systems	Research	
Electromagnetic compatibility		
Electronic components		

Projects

Syllabus – From Study Handbook

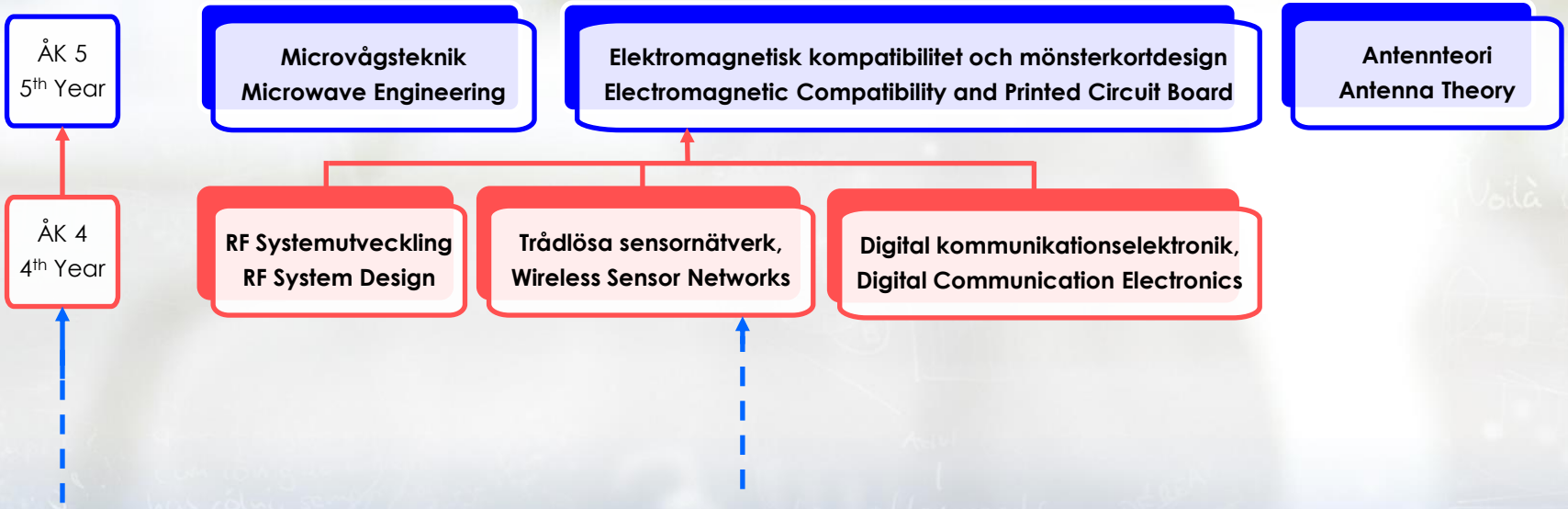
”Här ingår design av avancerade elektroniksystem med fokus på tillämpningar inom (trådlös) kommunikationselektronik.”

”Särskild specialisering sker på design av analog- och mixad analog/digital elektronik i RF-området.”

”Visst fokus ligger även på signalbehandling för digital kommunikation samt systemkonstruktion med hjälp av CAD.”

Wireless Systems Profile Courses

Master thesis: Supervising and examining



ED → Wireless Systems Courses

Master Thesis

Large project - 20 weeks full-time
"smaller research project"

Course Code: TQET33

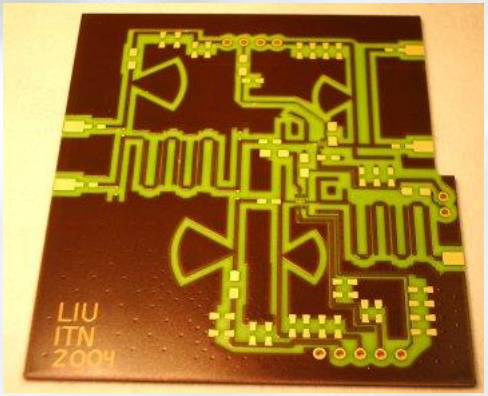
Photography: Adriana Serban

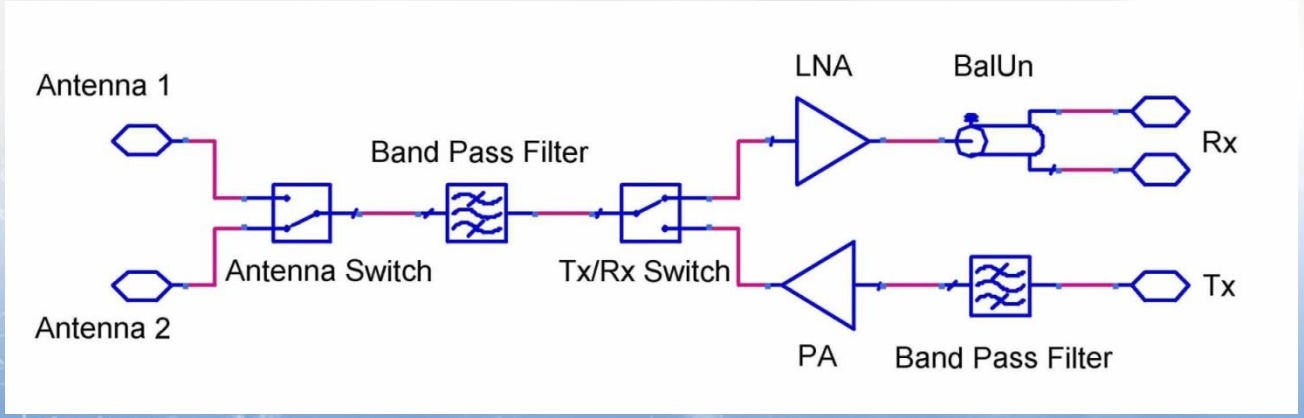
External master thesis
Industry-related work
Your own responsibility to find a subject

Internal master thesis
Research related work
Internally announced at: **www.comelec.itn.liu.se**

Example Student Project

Radio Front-end Module at 5 GHz

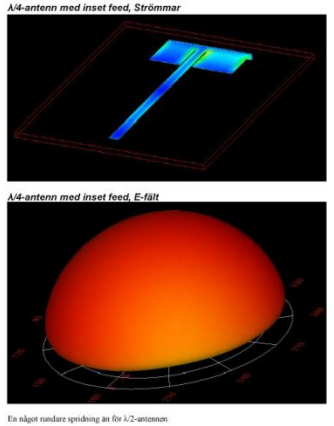


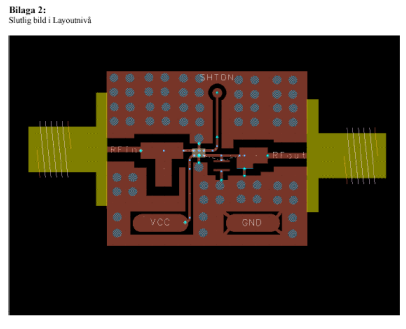


Example Student Projects

RF System Design (TNE062)

Antenna and low-noise amplifier design





Thank You!

Photography: Adriana Serban