Network Services and Systems

Master thesis project
in Swedish: Exjobb

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Master thesis in general

- **30 ECTS, ca. 6 months**
  - at a company, at KTH, or at another university, in Sweden or abroad
  - 100% of your time
  - no given times for start or to finish

- **Requirements**
  - 60 ECTS completed course work to start, but we advise you to take all your courses before you start your master thesis project.
  - written thesis, oral presentation
  - during the project
    - attendance of 2 project presentations
    - review of another master thesis

- **Grading (A-F)**
  - scientific or technical content
  - process: independence, responsibility, willingness to learn, deadlines (!)
  - presentation skills: written report and oral presentation

Master thesis - process

- Actors:
    - Student
    - KTH examiner, KTH advisor (can be the same person)
    - External project: external advisor
- Reasonability:
    - Student's responsibility to find project and to find examiner/advisor
- First step: find a project that fits the NSS program

Master thesis - process

- Find a project that fits the NSS program – where to look?
  - Laboratory for Communication Networks
    http://www.kth.se/en/ees/omskolan/organisation/avdelningar/lcn/education/masterproject
  - At the School of Electrical Engineering (unfortunately still in web system transition)
    http://www.kth.se/en/ees/utbildning/thesisproject/master-s-degree-projects-1.21730 or
    http://www.kth.se/en/ees/utbildning/thesisproject/master_thesis_projects
  - Within KTH even School of Information and Communication Technology and Computer Science and Communication may have relevant projects
  - At KTH: http://www.kth.se/en/samverkan/exjobb/studenter
  - Company webpages: Ericsson, ABB, Scania, SICS, ACREO (these last two are research institutes)
  - Personal contact
  - Advantage: good grades, proved interest

Master thesis - process

- Find examiner
  - Internal at KTH: advisor and examiner already assigned to the project
  - External (industry or other university): you need an examiner from KTH
    - Already given in the project description
    - If not: you have to find one. Contact a professor you know from your program (e.g., profs form LCN) who you think has the right expertise

- Check whether the project is acceptable for NSS
  - If examiner is not from LCN send me (vfodor@kth.se) a mail with the project description (including examiner and industry contact), so I can evaluate whether it is acceptable for the program

- The examiner registers the project – sends all registration form to the student office

Master thesis - process

- Application material:
  - When you apply for a project: send transcripts and CV, emphasize what you are good at and show interest!
  - When you look for an examiner for an external project:
    send transcripts, CV, project description, contact details of external advisor
- Delays:
  - If you can not work on the project in full time – talk to your advisor and examiners!
- Problems on the way in external projects:
  - Contact KTH examiner

- Do not start an external project without an examiner from KTH!
  - Confidentiality issues. The thesis report needs to be public!
- If you got a project abroad, talk to the Student Office
  - Travel grants, insurance

Master thesis projects at LCN/Haninge

- Prof. Gunnar Karlsson
  - Podcasting
- Prof. Rolf Stadler
  - Network management
  - Cloud computing
- Associate Prof. Viktoria Fodor
  - Wireless mesh networks
  - Cognitive radio networks
- Associate Prof. Panagiotis Papadimitratos
  - Network security
- Associate Prof. György Dán
  - Content distribution, game theroy
- Associate Prof. Thomas Lindh
  - Sensor networks for health applications
- Assistant Prof. Sarunas Girdzijauskas
  - Distributed systems

Students with very good grades are welcome to contact us and ask for specific research topics or industrial contacts.