

SATERISK and Mayfly Projects

About us

SIDlab Security is an international R&D environment that focuses on service innovation design for applications in the security and public safety industries. An interdisciplinary collaboration of lecturers, researchers, interns, and students make up the personnel of the Security Lab. Our R&D work consists of several ongoing projects with a common aim to improve the safety and security of society, the environment, and international commerce.

The Projects

Saterisk is a multi-year project focused on analyzing the risks associated with satellite-based positioning and tracking. Using analytical methodologies, we seek to answer the following questions:

- Does satellite navigation involve unacceptable risks?
- If so, what are they, and what is their nature?
- What will the risks be in the future, as more applications and new satellite systems become available?

The project consortium consists of several universities, private companies, and public authorities, and the main source of funding is Tekes, the Finnish Funding Agency for Technology and Innovation. More information can be found on our website, www.saterisk.com.

Mayfly is the newest project of SIDlab Security. In partnership with the University of Arizona (USA) and the University of Information Technologies, Mechanics and Optics (ITMO, Russia), we are investigating novel uses of Micro Air Vehicles (MAVs) for use in the security and public safety fields. MAVs are miniaturized remote-control and/or autonomous air vehicles, which can collect imagery and other information from the air and send it

back to ground stations or mobile networks, allowing users to understand and respond to a variety of critical scenarios.

SIDlab Security is developing service models and business cases for a variety of MAV applications, including police, border control, rescue services, customs, and industrial surveillance. We have planned a demonstration to test the University of Arizona *Dragonfly* MAV in Finnish winter conditions. We will also investigate the use on MAVs of novel electro-optical sensors developed by ITMO.

Internship Description

The intern will be involved in either Saterisk or Mayfly, or both, depending on the intern's skills and interests. The intern will work with SIDlab Security personnel to develop a suitable internship project that contributes to the needs of the research areas described above.

Mandatory skills/Experience

- Strong technical skills in systems engineering; physical sciences; hardware or software development; or other related fields.
- Ability to take initiatives and work independently.
- Comfortable working in English-speaking environment.
- Programming and database development skills are a plus.
- The ideal candidate will have experience in either risk analysis (SATERISK) or integrating sensors with data communication systems (Mayfly).

Apply via e mail by: 30.05.2010

Please attach your CV and motivation letter. The position will be filled as soon as the right candidate is found.

Contact Address

milton.aldrete@laurea.fi