

Application for Thesis Contract – Department of Electronic Systems

Type of thesis: Master's Thesis

Student

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Programme: INNOVATIVE COMMUNICATION TECHNOLOGIES AND ENTREPRENEURSHIP

Project Supervisor(s)

Name: HENNING OLESEN

Signature:



Collaboration with a Company (YES or NO): NO

Thesis

Project Title: VERIFICATION SYSTEM FOR INTERNATIONAL STUDENTS' DOMESTIC EDUCATIONAL RECORDS

Starting: 10TH OCTOBER 2021

Deadline: 28TH FEBRUARY 2022

ECTS: 30

If long master's thesis please indicate courses:

Project Description:

This project aims to investigate Self-Sovereign Identities (SSI) and related technologies in order to contribute to the development of forward-thinking solutions that protect students' privacy and control over their personal data records. Students' records are usually hosted in their school's proprietary database. In the absence of an interoperable standard, these documents are frequently inaccessible and nonportable. Students have less control over their records and diplomas, resulting in less access, less choice, and less equity, and they have no control over, who has access to them or when. Every year, thousands of international students travel abroad to study and submit their educational documents via an online application portal. The only identity they verify before travelling abroad may be the individual's citizenship via their passport at the immigration offices, and for the relying party it can be hard to verify that the local educational degree or qualification is valid. Therefore, the project will seek to design an identity management system for verifying international students' domestic educational records when submitted to foreign universities, in order to empower students to have better control over their credentials and allow selective disclosure that enhances their privacy.

Plan for Thesis Supervision and Lab Work:

The thesis supervisor meets with the student(s) approximately once a week to discuss progress, time schedule, resources, lab work, ideas, issues etc.



AALBORG UNIVERSITY
DENMARK

Approved by Head of Studies:

Date:

12/11-2021

Signature:

A handwritten signature in blue ink, appearing to read 'Dr. J. M. Sørensen'.

Please return the signed contract to the study board for approval by e-mail: inst.es.sdnvn.eit@es.aau.dk