Linnéuniversitetet
Linnaeus University

Degree Project Proposal
Department of Computer Science

Thesis Topic	**Disrupt a wheelchair**
Degree level	Engineering/Bachelor/Master – one or more
Company	Medsen AB
Description	Do you want to be a part of our team and disrupt the electrified wheelchair industry? Medsen has developed a new way to locate and transmit data from electrified wheelchairs using the LoRa infrastructure in Kalmar. This opens up for transmitting status information dramatically changing the way predictive maintenance can be effectively performed. However, manufacturers of electrified wheelchairs do not use standardized interface and data protocols. This information is crucial for predictive maintenance, a service that Kalmar Municipality can't fully utilize today. For the users, that means us taxpayers, this leads to dramatically increased maintenance cost. Do you want to be a part of a team and develop a disruptive open interface service by using IoT? Connect with us and help us connect the world of wheelchairs.
Objectives	The project includes - Geolocation determination and transmission - Wheelchair status data extraction, transmission, and presentation/API - Hardware theft prevention strategy - Hardware adaptor interface - Error code handling - Develop beta Web and Mobile service
Requirements	Requirements. Can be courses or skills.
Contact Person	Peo Stromberg, +46 720214955 peo.stromberg@medsen.se