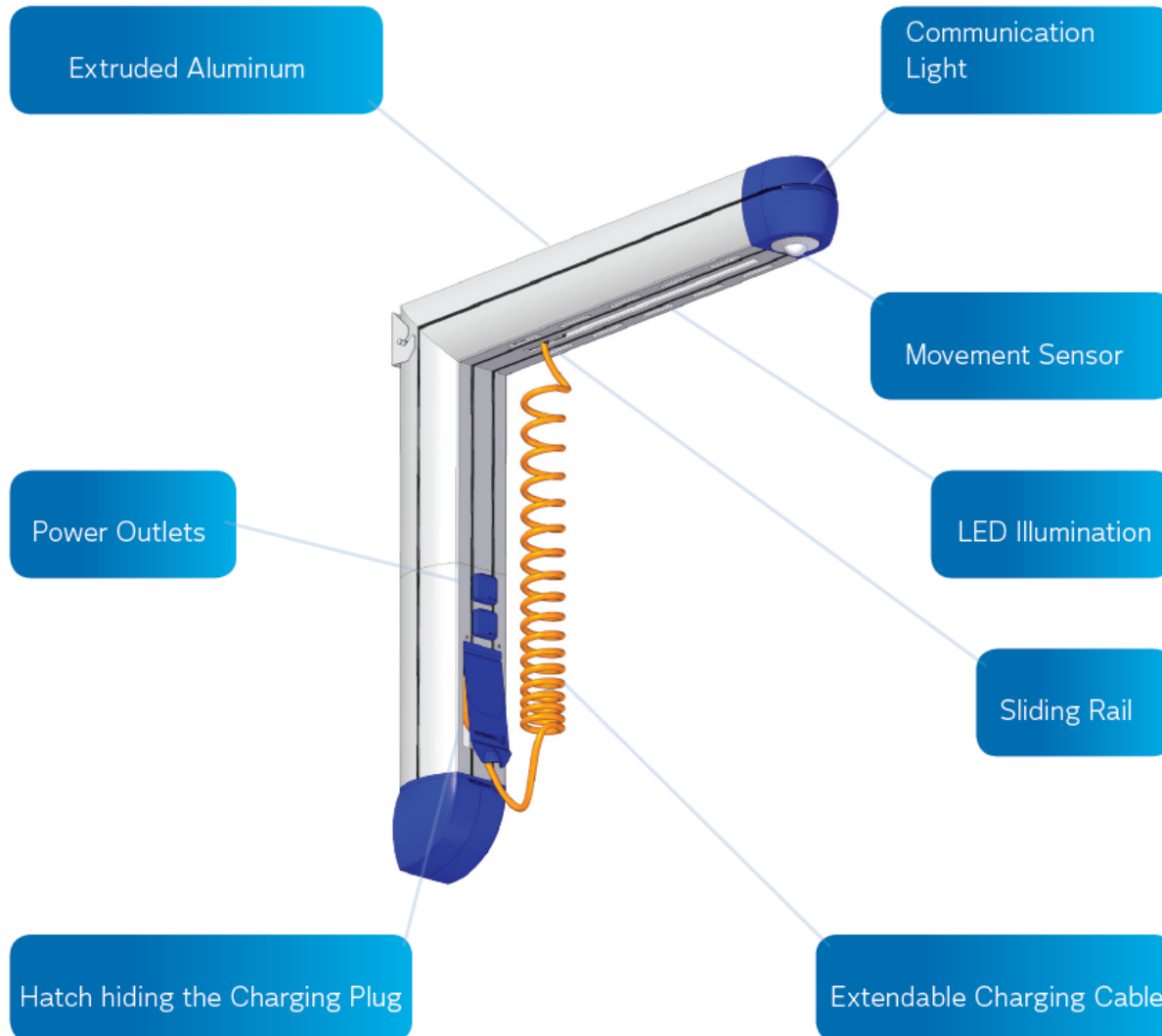


Prototype of Charging Station for Electric Vehicles

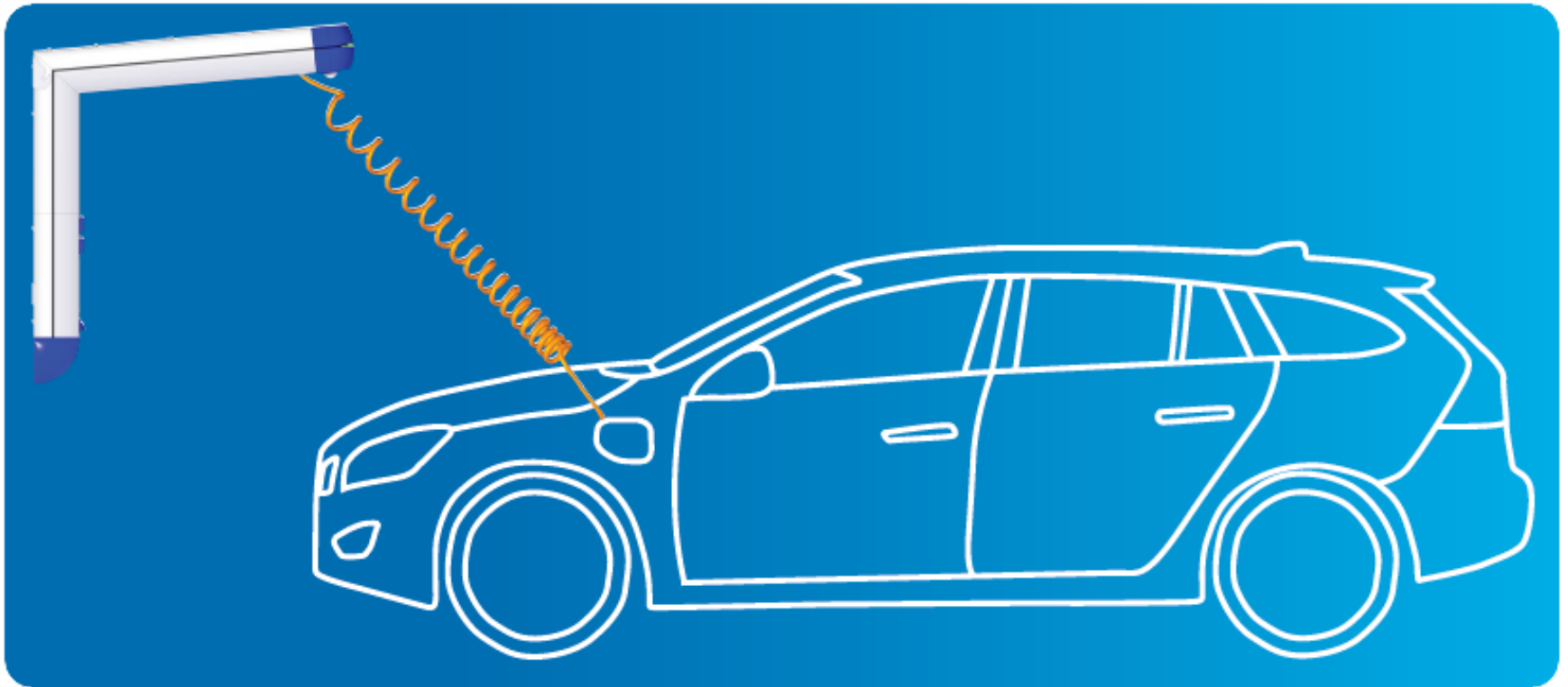
Axel Tollin, Viktor Åkerblom



Concept "NEW"



User-friendly



Description

The master thesis is a product development project that has been carried out in cooperation with *Vattenfall Research and Development*. The project task was to design and develop a technical prototype of a charging station for electric vehicles based on a previous concept. The prototype manufactured in the project is called NEW.

The developed charging station retains user-friendliness by allowing the user to charge electric vehicles with one hand without getting soiled, even in darkness. The prototype was manufactured using extruded aluminium profiles. The cross-section of the profiles was designed to contain all components, meet desired features and have a positive visual impact.

The prototype was assembled and then demonstrated at *Vattenfall* in Älvkarleby the 13th of June 2012.

Axel Tollin (CDEPR)

atollin@kth.se

Viktor Åkerblom (CDEPR)

viktorak@kth.se

Supervisor: Conrad Luttrupp

conrad@md.kth.se

Answer/motivation: Being environmentally friendly does not have to be strenuous. Our aim is to facilitate the charging and add some extra to speed up the e-mobility program.