Motivation
Electric vehicle (EV) charging infrastructure is very expensive. The OpenEVSE and Drehstromkiste.de show that this does not have to be like that. Firmware version 3.0 and above introduced a new Remote API, a simple bi-directional communication protocol to communicate with just about anything. OpenEVSE builders have implemented WiFi, Bluetooth, xBee, Solar control, applications, web servers and smart displays.

Your Task is to port Open EVSE to XMC4500.

Project description
• Goal
  Port OpenEVSE to XMC4500 Relax Lite Kit.
  Propose a concept to secure the communication.

• Tasks
  Get familiar with XMC4500 Relax Lite Kit
  http://www.ehitex.de/cortex-development/xmc4000/447/xmc4500-relax-lite-kit

  Exploring OpenEVSE Firmware & Libraries
  https://github.com/chris1howell/
  https://github.com/lincomatic/open_evse

Deliverables
• Project files (.zip, cleaned)
• DIY OpenEVSE_boards (inline)
• Documentation (getting started)
• Readme (10 .ppt slides)

Project schedule
• Start Immediately
• Month 1 Exploring OpenEVSE
• Month 2 development,
• Month 3 Testing, final deliverables

Bachelor Project
Studies: ☒ INF ☒ SEW ☒ TEL

Prerequisites
• C programming
• soldering

Advisor / contact
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