

Charging Station for ISO / IEC 15118 Protocol

*Building working smart networked charging station with support for both ISO 15118 and*

*IEC 61851*

Bachelors Project

**Presented by**

Jiztom Kavalakkatt Francis

Nivas Gokul Manimurugesan

Raphael Scholz

**Supervisor** Prof. Dr.-Ing. Ansgar Meroth, Hochschule Heilbronn

Hochschule Heilbronn

Faculty of Mechanics und Electronics

Automotive Systems Engineering

**Table of Contents**

**Contents III**

**Abstract IV**

**List of tables V**

**List of Figures VI**

**List of Symbols and Abbreviations VII**

1. **Introduction**
   * + 1. Short Version
       2. Task
       3. Chapter Overview
2. **Technologies Used**
   1. ISO/IEC 15118
   2. IEC 61851
   3. Open v2g project
   4. TCP/IP communication
   5. UML
   6. Automatic State Machine
3. **Software technologies used**
   1. Filezilla
   2. Geany
   3. Putty Terminal
   4. EB GUIDE 6.3
   5. www.draw.io
   6. Visual Paradigm 14.0
   7. gcc compiler on Linux terminal
4. **Hardware Technologies used**
   1. Raspberry Pi 3 with 7” Capacitive Touch screen
   2. EVAChargSE Board
   3. Communication between EVSE and EV
   4. Communication between EVSE and Raspberry Pi