

# Minjia Chen

ELEKTROMOBILITÄT · MASTER STUDENT

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“Be the change that you want to see in the world.”

## Studium

### TUBS(Technische Universität Braunschweig)

Braunschweig, Bundesrepublik  
Deutschland

M.Sc. ELEKTROMOBILITÄT

Okt. 2019 - Heute

- Vorläufige Note: 2,1
- Im Fokus stehen Leistungselektronik, Fahrzeugtechnik ebenso wie elektrische Antriebe.
- Die TUBS rangiert zwischen dem 561. und dem 570. Platz im QS World University Rankings 2022

### XJTU(Xi'an Jiaotong Universität)

Xi'an, Volksrepublik China

B. ING. ENERGY AND POWER ENGINEERING

Sept. 2015 - Jun. 2019

- GPA: 3.35
- Schwerpunkte sind Fahrzeugtechnik, Maschinenbau, Thermodynamik sowie Grundlagen der Regelungstechnik
- Die XJTU belegt den 290. Platz im QS World University Ranking 2022

## Fähigkeiten

<b>Mathematik</b>	MatLab, Simulink
<b>Codierung</b>	Python, MATLAB, Cpp
<b>CAD</b>	SolidWorks
<b>Simulationen</b>	PLECS(LE), ANSYS Fluent(CFD)
<b>Sprachen</b>	Chinesisch, Englisch, Deutsch
<b>Büro</b>	MS Office, Windows

## Erfahrungen

### Technische Universität Braunschweig

Braunschweig, Bundesrepublik  
Deutschland

STUDENTISCHE HILFSKRAFT

Nov.2021 - Heute

- Entwicklung von Python-Werkzeugen zur Automatisierung von leistungselektronischen Schaltungssimulationen mit PLECS
- Entwicklung von Python-Werkzeugen zur Finalisierung und Vergleichung der Ergebnisse der Simulationen
- Automatisierung der Generierung verschiedener Arten von Diagrammen(3D-Wireframes, gestapelte Balkendiagramme usw.) je nach Eigenschaften der Daten
- Anpassungen in PLECS-Modellen
- Documentation der Skripten

### PLAT Corp.

Seoul, S.Korea

CO-FOUNDER & SOFTWARE ENGINEER

Jan. 2016 - Jun. 2017

- Implemented RESTful API server for car rental booking application(CARPLAT in Google Play).
- Built and deployed overall service infrastructure utilizing Docker container, CircleCI, and several AWS stack(Including EC2, ECS, Route 53, S3, CloudFront, RDS, ElastiCache, IAM), focusing on high-availability, fault tolerance, and auto-scaling.
- Developed an easy-to-use Payment module which connects to major PG(Payment Gateway) companies in Korea.

### Undergraduate Research, Machine Learning Lab(Prof. Seungjin Choi)

Pohang, S.Korea

RESEARCHER

Mar. 2016 - Exp. Jun. 2017

- Researched classification algorithms(SVM, CNN) to improve accuracy of human exercise recognition with wearable device.
- Developed two TIZEN applications to collect sample data set and to recognize user exercise on SAMSUNG Gear S.

### R.O.K Cyber Command, MND

Seoul, S.Korea

SOFTWARE ENGINEER & SECURITY RESEARCHER (COMPULSORY MILITARY SERVICE)

Aug. 2014 - Apr. 2016

- Lead engineer on agent-less backtracking system that can discover client device's fingerprint(including public and private IP) independently of the Proxy, VPN and NAT.
- Implemented a distributed web stress test tool with high anonymity.
- Implemented a military cooperation system which is web based real time messenger in Scala on Lift.

## NEXON

Seoul, S.Korea & LA, U.S.A

GAME DEVELOPER INTERN AT GLOBAL INTERNSHIP PROGRAM

Jan. 2013 - Feb. 2013

- Developed in Cocos2d-x an action puzzle game(Dragon Buster) targeting U.S. market.
- Implemented API server which is communicating with game client and In-App Store, along with two other team members who wrote the game logic and designed game graphics.
- Won the 2nd prize in final evaluation.

## Undergraduate Research, Computer Vision Lab(Prof. Bohyung Han)

Pohang, S.Korea

RESEARCHER FOR <DETECTING VIDEO'S TORRENTS USING IMAGE SIMILARITY ALGORITHMS>

Sep. 2012 - Feb. 2013

- Researched means of retrieving a corresponding video based on image contents using image similarity algorithm.
- Implemented prototype that users can obtain torrent magnet links of corresponding video relevant to an image on web site.

## Software Maestro (funded by Korea Ministry of Knowledge and Economy)

Seoul, S.Korea

SOFTWARE ENGINEER TRAINEE

Jul. 2012 - Jun. 2013

- Performed research memory management strategies of OS and implemented in Python an interactive simulator for Linux kernel memory management.

## ShitOne Corp.

Seoul, S.Korea

SOFTWARE ENGINEER

Dec. 2011 - Feb. 2012

- Developed a proxy drive smartphone application which connects proxy driver and customer. Implemented overall Android application logic and wrote API server for community service, along with lead engineer who designed bidding protocol on raw socket and implemented API server for bidding.

## SAMSUNG Electronics

S.Korea

FREELANCE PENETRATION TESTER

Sep. 2013, Mar. 2011 - Oct. 2011

- Conducted penetration testing on SAMSUNG KNOX, which is solution for enterprise mobile security.
- Conducted penetration testing on SAMSUNG Smart TV.