

# Enrique Garcia Perez

SOFTWARE ENGINEER · FULL-STACK DEVELOPER

Mommensenstr. 33, 10629 Berlin. Germany

☎ (+49) 160-90822367 | ✉ engarpe@gmail.com | 🏠 <https://engarpe.github.io> | 📱 engarpe | 🌐 engarpe

*"It always seems impossible until its done."*

## Summary

---

Algorithm design, problem solving, design thinking, software architecture, 6+ years Java experience. 1+ year Objective-C, C#, Javascript and Python experience. Solid machine learning foundations. Strong leadership and communication skills.

## Experience

---

### SAP Innovation Center - Healthcare & Life Sciences

Potsdam, Germany

FULL-STACK SOFTWARE DEVELOPER

Nov. 2013 - present (3 Years)

- Research on machine learning approaches to analyze EMRs (Electronical Medical Records)
- Design and implementation of a product focused on clinical data analysis
- Design and maintenance of continuous integration pipeline using Python, Ansible and EC2 instances
- Implementation of a source code analysis tool in Java
- UI Interaction design and development using jquery, sapUI5, javascript, etc.

### Massachusetts Institute of Technology AgeLab

Boston, USA

RESEARCH ASSOCIATE

Jun. 2012 - Sep. 2013 (15 months)

- Master Thesis: A Symbolic Approach for Classification of Cognitive Workload in Drivers
- Design and build a system to ingest and analyze car telemetry data
- Created a tool to cleanse and visualize hear rate signals

### Siemens IT Solutions and Services Ptd. Ltd.

Singapore

INTERN

Aug. 2011 - Oct. 2011 (3 months)

- Implementation of SharePoint workflows to improve internal IT business processes. Reduced in 30% the time required to process a customer inquiry

### Technical University Munich (Chair Prof. Bruegge)

Munich, Germany

RESEARCH ASSOCIATE

Nov. 2010 - Jul. 2011 (9 Months)

- Survey evaluation and data analysis using R
- Extracted unstructured information of public APIs

### Technical University Munich (Chair Prof. Carle)

Munich, Germany

RESEARCH ASSOCIATE

Sep. 2009 - Jul. 2010 (11 Months)

- Developed an autonomous configuration control loop enabling devices to interact with the Autonomous Control and Management Platform (ACMP). The ACMP is now integrated in the AuthoNe project.

### Volkswagen AG

Wolfsburg, Germany

SOFTWARE ENGINEER INTERN

Apr. 2009 - Jul. 2009 (4 Months)

- Developed a top-view camera simulation tool with MATLAB to support the research, architecture, development and configuration of an innovative driver assistance system.

### Volkswagen Mexico

Puebla, Mexico

SOFTWARE ENGINEER INTERN

Mar. 2008 - Jul. 2008

- Gained insight into new technologies and opportunities to drive innovation by constantly identifying emerging technologies which may be utilized by Volkswagen company.
- Articulated opportunities/concepts to the company's knowledge management platform.

## Siemens AG

SOFTWARE ENGINEER INTERN

Munich, Germany

Apr. 2007 - Sep. 2007 (6 Months)

- Developed and documented customer requirements for SharePoint tools and applications.
- Designed and implemented a new portal architecture for the Siemens Business Services (SBS) department.
- Developed and integrated new portal instances for different stakeholders.

## Education

### Technical University Munich, Ludwig-Maximillian University, Augsburg University

Munich, Germany

M.Sc. SOFTWARE ENGINEERING WITH HONORS — GRADE 95%

Mar. 2013

- Formal methods, Specification and verification of reactive systems, Database management systems, Embedded systems, Distributed systems, Human-computer interaction, Testing

### Universidad de las Americas, Puebla, A.C.

Puebla, Mexico

B.Sc. COMPUTER SYSTEMS ENGINEERING — GRADE 98%

May 2010

## Publications

- 2014** E.T. Solovey, M. Zec, **E. Garcia Perez**, B. Reimer, B. Mehler. Classifying Driver Workload Using Physiological and Driving Performance Data: Two Field Studies. *Proceedings of the SIGCHI Conference on Human Factors in Computing Systems CHI '14*, ACM Press (2014).
- 2013** Reimer, B., Mehler, B., McAnulty, H., Munger, D., Mehler, A., **Garcia Perez, E.A.**, Manhardt, T. & Coughlin, J.F. (2013). A Preliminary Assessment of Perceived and Objectively Scaled Workload of a Voice-Based Driver Interface. *Proceedings of the 7th International Driving Symposium on Human Factors in Driver Assessment, Training, and Vehicle Design*. Bolton Landing, NY. pp. 537-543

## Skills

**Programming** Java, Python, SQL, C#, Objective-C, Scala, Node.JS, LaTeX, Matlab, Octave  
**Web** Django with Python, HTML5, OpenUI5  
**Languages** Spanish (Native), German, English

## Leadership Activities

2011 **Co-founder**, tvoicer - voices to the people

Germany

## Honors & Awards

2014 **Best Paper Award Honorable Mention [Awarded to top 5%]**, SIGCHI Technical Committee  
2010 **Scholarship for Master Degree**, CONACYT-DAAD  
2010 **Magna Cum Laude**, Fundacion Universidad de las Americas Puebla

USA

Germany

Mexico