

# ENRIQUE A. GARCIA PEREZ

Computer Science  
engarpe@gmail.com  
+49 (160) 90822367

## SUMMARY

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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

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### **Software Developer at SAP Innovation Center**

*November 2013 - present (2 years)*

*Potsdam, Germany*

- Design and maintenance of continuous integration pipeline using Python, Ansible and EC2 instances
- Research on machine learning approaches to analyze EMRs (Electronical Medical Records)
- Implementation of an ABAP source code analyzer in Java
- UI Interaction design and development using jquery, sapUI5, javascript, etc.
- Application concept from Business Model to Go-To-Market Strategy

### **Research Associate at Massachusetts Institute of Technology AgeLab**

*June 2012 - September 2013 (15 months)*

*Boston, USA*

- Master Thesis: A Symbolic Approach for Classification of Cognitive Workload in Drivers
- Database design, implementation and administration

### **Intern at Siemens IT Solutions and Services Ptd. Ltd.**

*August 2011 - October 2011 (3 months)*

*Singapore*

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

### **Research Associate at Technical University Munich**

*November 2010 - July 2011 (9 months)*

*Munich, Germany*

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

### **Research Associate at Technical University Munich**

*September 2009 - July 2010 (11 months)*

*Munich, Germany*

- 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.

### **Intern at Volkswagen AG**

*April 2009 - July 2009 (4 months)*

*Wolfsburg, Germany*

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

### **Intern at Volkswagen**

*March 2008 - July 2008 (5 months)*

*Puebla, Mexico*

- 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.

## Intern at Siemens

April 2007 - September 2007 (6 months)

Munich, Germany

- 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

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**M.Sc. Software Engineering, Honors — Grade 95%**

March 2013

*Technical University Munich, Ludwig-Maximilian University, Augsburg University, Germany*

**B.Sc. Computer Systems Engineering — Grade 98%**

May 2010

*Fundacion Universidad de las Americas, Puebla, A.C., Mexico*

## PUBLICATIONS

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E.T. Solovey, M. Zec, **E. Garcia Perez**, B. Reimer, B. Mehler. Classifying Driver Workload Using Physiological and Driving Performance Data: Two Field Studies. *Proc. ACM Conference on Human Factors in Computing Systems CHI 14*, ACM Press (2014). Best Paper Award Honorable Mention. [Awarded to top 5%]

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

## COURSES

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**Master of Science (M.Sc.), Computer Science - Software Engineering**

*Technical University Munich, Ludwig-Maximilian University, Augsburg University*

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

## LANGUAGES

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<b>Spanish</b>	(Native or bilingual proficiency)
<b>German</b>	(Full professional proficiency)
<b>English</b>	(Full professional proficiency)
<b>Italian</b>	(Elementary proficiency)

## SKILLS

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<b>Distributed Systems</b>	(Intermediate, 1 year experience)
<b>Machine Learning</b>	(Intermediate, 1 year experience)
<b>Algorithm Design</b>	(Advanced, 5+ year experience)
<b>Java</b>	(Advanced, 6+ year experience)
<b>Matlab, R</b>	(Intermediate, 1 year experience)
<b>SQL</b>	(Intermediate, 2 year experience)
<b>Linux</b>	(Intermediate, 1 year experience)
<b>C#, Objective-C</b>	(Intermediate, 1+ year experience)

## LEADERSHIP ACTIVITIES

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

October 2011 - Present

## AWARDS AND HONORS

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**Magna Cum Laude**, Fundacion Universidad de las Americas. Puebla, Mexico

May 2010

**Scholarship for Master Degree**, CONACYT-DAAD

October 2010