

PERSONAL INFORMATION

Date of birth: 1981-04-02 Gender: male Nationality: German
 Marital status: married Contact: leyecho@gmail.com Web: yecho.de

WORK EXPERIENCE

BMW Group R&D Design, Munich, Germany

Technical Team Lead / Creative Technologist / Fastlane-Mentor Nov 2017 to present

- Apr 2020 to present: Technical Team Lead
 Lead interdisciplinary team of 7 persons to build an Android-based system for key UX/UI decisions of future cars (deadline 09/20), presented to the board of management;
 Design automation to enable non-coders to contribute to the product in high-speed;
 Design seating buck including all HW-/SW-components regarding the UI;
 Design tools for Sound Engineering (i.e. collaboration with [Hans Zimmer](#))
- Nov 2017-Apr 2020: Creative Technologist of several high prio UI projects
 Create concepts and HW-/SW-implementations around user interfaces and presentations up to the board of management helping to decide key Design factors
- Mar 2017-Mar 2020: Mentor of the [BMW Fastlane Scholarship Programme](#)
 Take care of and develop a mentee: permanent position as SW Dev at BMW Group

BMW Group Research and Technology, Munich, Germany

Project Lead / Fastlane-Mentor / Engineer Apr 2010 to Nov 2017

- 2016-2017: Mentor of the [BMW Fastlane Scholarship Programme](#)
 Take care of and develop a mentee: permanent position as PO at BMW Group
- 2015-2017: Project lead “I&K Architektur 2021 - Software”
 Push container virtualization in-vehicle and cloud
 Result: Registered/granted patents: [1](#), [2](#)
 Result: Transfer of know-how and development on the Linux-based headunit
- 2013-2015: Project lead of “P2P Carsharing – Damage Detection”
 Develop ECU & algorithm prototype to detect fender benders
 Result: [CES 2016](#) and transfer to (pre-)development
 Result: Registered/granted patents: [1](#), [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#)
 Result: Transfer of know-how to carsharing development and series development (combination with camera systems of the car)
 Result: Permission by DriveNow CEO to pilot the function with DriveNow fleet
- 2011-2013: Project lead of funded projects [“Multimedialer Inhalt folgt Person”](#) and [“Adaptive Multimodal Streaming”](#)
 Define overall architecture with all partners of the consortium, develop app prototypes for BMW vehicles and integrate them in the whole setup with contractors
 Result: [Workshop](#) and transfer of know-how to series development
 Result: Registered/granted patents: [1](#), [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#)
- 2010-2013: Engineer in the project “Automotive Entertainment of the Future”
 Develop car prototypes, working with [Peter Burgner](#) (now at Apple)
 Result: [Publication \(copy\)](#) and transfer of know-how to series development
- 2010-2011: Engineer in the BMBF-funded project [“Semantic Product Memory”](#)
 Develop prototypes with contractors and partners of the consortium
 Result: Two [chapters](#) in a [publication](#) and transfer of know-how to development

BMW Group, Munich, Germany

Diploma candidate “BMW Research and Technology” Jul 2009 to Feb 2010

- Preventive Diagnosis and Design Optimization: requirements analysis, concept, implementation of a wireless measurement system for physical load analysis

Intern “Technical Competitors’ Analysis” Apr 2009 to Jul 2009

- Project “Measurement planning tool for analysis and benchmarking of competitors’ cars” across three teams: requirements analysis, concept and implementation of a prototype, additionally E/E-analysis and -benchmarking of competitors’ cars (esp. ADAS, Infotainment, special equipment)

Chair of Information Technologies at University of Erlangen-Nuremberg, Erlangen, Germany

Research Assistant May 2007 to May 2008

- Design and implement a DVB-T/DVB-H audio/video composing application
- Design and implement a management interface for the latter

SCHEMA GmbH, Nuremberg, Germany

Working Student/Quality Assurance May 2006 to May 2007

- Evaluate GUI test automation tools
- Present evaluation results and recommend a tool for acquirement
- Develop test automation scripts

EDUCATION

University of Erlangen-Nuremberg, Germany

Dipl.-Ing., Information and Communication Technologies Sep 2003 to Feb 2010

- Diploma Thesis “Preventive Diagnosis and Design Optimization”, finished 2010-02-22
Keywords: wireless sensor networks, system architecture/topology, data modeling
- Pre-Master’s Thesis “3D localization using Wii-Remote”, finished 2009-02-27
Keywords: analytical geometry, localization, sensor nodes, Wii-Remote
- Seminar “Security in mobile networks”
Keywords: denial of service, location privacy, WLAN, GSM/UMTS, Mobile IP

HONORS

Fachschaftsinitiative IuK: Honorary Member

- Organization/execution of 1st semester orientation events and UNIX courses for beginners, contribution to a fair adjustment of examination regulations, Oct 2004 to Sep 2008

PERSONAL SKILLS AND COMPETENCES

Gallup Talents	1. Learner/2. Achiever/3. Individualization/4. Activator/5. Input; 2017-01
Languages	German (mother tongue) English (fluent, spoken and written, proficient in understanding) Korean (basic knowledge of speaking and writing, adequate understanding)
Programming	UNIX shell scripting, Python, Javascript, C, Java, Android, ...
Software	Microsoft Office, Windows, Linux, T _E X, L ^A T _E X
Sports	Tae-Kwon-Do since 1986, instructor for children since 1997
Artistic	Guitar (School Big Band, jam sessions with other musicians), Violin (School Orchestra, Children’s Orchestra of Nuremberg), Piano
Driving licence	European driving licence (Classes B, M, L)