Alexander Jahn

Birthday 18.09.1988 in Heide (Holstein)

Address Robert-Koch-Str. 2

50937 Köln

Phone +4915782605083

eMail jahn.alexander@gmail.com

Education

Federal University of Minas Gerais (Brazil)

03/2015-04/2017. Master's Degree in *Electrical Engineering* from CORO group.
Thesis: Sampling Based Methods in Robotic Perimeter Surveillance.
Supervisor: Prof. Luciano Cunha de Araújo Pimenta

Schmalkalden University of Applied Sciences (Germany)

10/2011-01/2015. Bachelor of Science in *Electrical Engineering*.
Thesis: Conception, Implementation and Test of an Analog Signal Conditioning Circuit for Piezoelectric Pressure Sensors.
Supervisor: Prof. Dr.-Ing. Andreas Wenzel
Grade: 1.5 (German system)
Observation: It overlaps 1.5 years with the apprenticeship at Bosch

Publications

Published

2017. Alexander Jahn, Reza Javanmard Alitappeh, David Saldana, Luciano C. A. Pimenta, Andre G. Santos, Mario F. M. Campos. Distributed Multi-Robot Coordination for Dynamic Perimeter Surveillance in Uncertain Environments. ICRA 2017.

2016. Manuel Schneider, Alexander Jahn, Norbert Greifzu, Norbert Fränzel. Development of a Unipolar Differential Charge Amplifier for Use in Embedded Diagnostic Systems for Measuring the Pressure in Injection Moulding Machines. Journal of Sensors and Sensor Systems

2016. Alexander Jahn and Luciano CA Pimenta. Sampling Based Path Planning and Vector Fields for Curve Tracking by UAVs. IEEE, XIII Latin American Robotics Symposium and IV Brazilian Robotics Symposium. Recife, Brazil.

2016. Manuel Schneider, Alexander Jahn, Norbert Greifzu, Norbert Fränzel. Entwicklung eines unipolaren differentiellen Ladungsverstärkers für die Anwendung in eingebetteten Diagnosesystemen zur Druckmessung in Spritzgussmaschinen. 18. GMA/ITG Fachtagung: Sensoren und Messsysteme.

2014. Alexander Jahn, Falko Ehrle, Carsten Roppel. A Level Sensor for Fluids Based on Hydrostatic Deformation with Piezoelectric Generated Sounds in a Low Frequency Range. IEEE 6th European Embedded Design in Education and Research Conference. Milan, Italy.

Professional Experience

Independent contractor (Freiberuflicher Softwareentwickler)

03/2019-now. Data-science projects in python, process automation using Fanuc/ABB robots controlled by C# .Net. ML computer vision applications.

Fedger.io

01/2019-10/2019. Fullstack-developer (Python/HTML+JS+CSS, PostgreSQL) for a cloud-based automation tool using a computer vision AI implemented in Tensorflow. Agile/extreme programming. Cologne, Germany.

RWTH-Aachen (Werkzeugmaschinenlabor WZL)
06/2017-12/2018. Research associate
Project lead/senior software engineer in research projects related to robotic process automation. Aachen, Germany.

Fraunhofer Institute IOSB
08/2014-01/2015. Research intern, bachelor thesis
'Development, Implementation and Test of an Analog Signal Conditioning Circuit for Piezoelectric Pressure Sensors'. Ilmenau, Germany.

Robert Bosch Fahrzeugelektrik Eisenach GmbH
09/2009-02/2013. 'Dual apprenticeship' as an electrician in automation technology plus electrical engineering degree. Eisenach, Germany. Final grade: 96%.

Schmalkalden University of Applied Sciences
2012-2014. Assistant researcher in the embedded diagnostic systems research group. As well as tutor in microcontroller-classes.

Awards/etc.

ICRA 2017 RAS Travel Grant
2017. Singapore. US$ 700 support

Scholarship from Brazilian government agency CAPES
2015-2017. Belo Horizonte, Brazil. Monthly financial support R$1500.

TEAG-Award for outstanding bachelor's thesis
2015. Schmalkalden, Germany. Awarded 2500€.

Finalist for best apprentice award
2013. Thuringia, Germany. Finalist for the state-wide award.

Other

Programming Languages (in order of proficiency)
Python, C#, Javascript/Typescript, RAPID/ Fanuc TP, Matlab/Octave, C++, C, Java, PHP

Languages
German (native speaker), English (fluent), Portuguese (fluent)

https://github.com/AlxndrJhn/

https://www.linkedin.com/in/alexander-jahn-7849b7a8/

Cologne, 09.03.2021