

# CURRICULUM VITAE

## PERSONAL INFORMATION

Name  
Address  
  
Telephone  
E-Mail  
Website  
Nationality

SINGH Amita  
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Indian



## WORK EXPERIENCE

- ▷ Period
- Employer
- Position
- Main responsibilities

2018 – Present

**KTH Royal Institute of Technology**, Stockholm, Sweden  
Research Engineer

- Implementation of cloud solutions for Swedish-German testbed
- Connection of machine tools at various locations to cloud

- ▷ Period
- Employer
- Position
- Main responsibilities

2015 – 2016

**John Deere Werke**, Mannheim, Germany  
Intern

- Optimization of Assembly Lines using Discrete-Event Simulation

- ▷ Period
- Employer
- Position
- Main responsibilities

2011 – 2014

**TATA Technologies (TATA Motors)**, Lucknow, India  
Senior Simulation Engineer

- Validation of factory layouts and optimization of material flows
- Process simulation for fixtures, robots and other resources
- Conducting time-studies and creating questionnaires
- Human posture and fatigue analysis during assembly processes
- Creation of e-modules for operator training

- ▷ Period
- Employer
- Position
- Main responsibilities

2010 – 2011

**TATA Technologies (TATA Motors)**, Lucknow, India  
Process Engineer

- Analysis of assembly lines
- Creation of process and controls documents: Process sheets, Process flow diagrams, FMEA and Control plans

## SCHOLASTIC ACHIEVEMENTS

- ▷ Conference Paper

**A. Singh**, F. Quint, P. Bertram, M. Ruskowski. *Towards Modular and Adaptive Assistance Systems for Manual Assembly: A Semantic Description and Interoperability Framework*. UBICOMM (2018)

- ▷ Session Chair

Ubiquitous Software and Security session at UBICOMM (2018)

▷ Scholarship	DAAD STIBET 2016 – 17
▷ Seminar (Electromobility)	Third place in a competition on Energy Management Strategies for Hybrid Electric Vehicles using MATLAB/Simulink (2015)
▷ Internship	One of the ten candidates selected by German Society for International Cooperation from India for internship in Germany (2014).
▷ Project	Project of the Quarter 2012 – 13 (TATA Motors)

## EDUCATION

▷ Master thesis	Modular & Adaptive Assistance Systems for Manual Assembly – Engineering a Semantically Described CPS Module — German Center for Artificial Intelligenc & <i>SmartFactory</i> <sup>KL</sup>
▷ Period	2014 – 2017
◦ Acquired qualification	<b>M.Sc.</b> in Commercial Vehicle Technology
◦ Institute	TU Kaiserslautern
◦ Major subjects	Electrical Engg, Computer Science, Mechanical Engg
◦ Grade	1.5 (Very Good)
▷ Period	2006 – 2010
◦ Acquired qualification	<b>B.Eng.</b> in Mechanical Engg
◦ Institute	BIET Jhansi (India)

## LANGUAGES

English	Fluent
German	Intermediate (B1)
Swedish	Beginner (A1)
Hindi	Native

## TECHNICAL SKILLS

Programming Languages	C#, VBA, MATLAB/Simulink, Python, Java, JavaScript/HTML/CSS, SQL/SPARQL
Programming Tools	git, Atom, Eclipse, $\text{\LaTeX}$
Software	Protégé, Delmia, Catia, AutoCAD, Quest, PLM, MS/Google Suite
Operating Systems	Linux & Windows

## ORGANISATIONAL SKILLS

RESPONSIBILITIES HELD	<ul style="list-style-type: none"> <li>• Volunteer with ASZ for refugee assistance (KL)</li> <li>• Team Leader for 5S in department (TATA Tech.)</li> <li>• Institute Sports Captain (BIET Jhansi)</li> </ul>
HOBBIES	<ul style="list-style-type: none"> <li>• Reading and programming</li> </ul>

Stockholm, December 17, 2018

Amita Singh