

CURRICULUM VITAE

PERSONAL INFORMATION

Name
Address

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Nationality

SINGH Amita
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Indian



WORK EXPERIENCE

- ▷ Period
- Employer
- Position
- Main responsibilities

2019 – Present
KTH Royal Institute of Technology, Sweden
PhD Candidate

- Urban mobility project development
- Simulation and optimization

- ▷ Period
- Employer
- Position
- Main responsibilities

2018 –2019
KTH Royal Institute of Technology, 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), 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

- ▷ Period
- Employer
- Position
- Main responsibilities

2010 – 2011
TATA Technologies (TATA Motors), India
Process Engineer

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

SCHOLASTIC ACHIEVEMENTS

- ▷ Journal Paper

A. Singh, F. Quint, P. Bertram, M. Ruskowski. *A Framework for Semantic Description and Interoperability across Cyber-Physical Systems*. International Journal On Advances In Intelligent Systems IARIA (2019)

- ▷ 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 & *SmartFactory*^{KL}
- ▷ Period 2014 – 2017
 - Acquired qualification **M.Sc.** in Commercial Vehicle Technology
 - Institute TU Kaiserslautern
 - Major subjects Electrical Engg, Computer Science, Mechanical Engg
- ▷ Period 2006 – 2010
 - Acquired qualification **B.Eng.** in Mechanical Engg
 - Institute BIET Jhansi (India)

LANGUAGES

English	Fluent
German	Intermediate (B1-B2)
Swedish	Beginner (A1-A2)
Hindi	Native

TECHNICAL SKILLS

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

RESPONSIBILITIES HELD

- Volunteer with ASZ for refugee assistance (KL)
- Team Leader for 5S in department (TATA Tech.)
- Institute Sports Captain (BIET Jhansi)

HOBBIES

- Reading and programming

Stockholm, July 20, 2020

Amita Singh