Curriculum Vitae

Personal Information

Name	Singh Amita
Address	Kvarnbergagatan 12, 151 36 Södertälje, Sweden
Telephone	(46) 0721486306
E-Mail	amitas@kth.se
Website	www.amitasingh.in
Nationality	Indian

Work Experience

▷ Period
2019 – Present

○ Employer
KTH Royal Institute of Technology, Sweden

○ Position
PhD Candidate

○ Main responsibilities
- Urban mobility project development
- Simulation and optimization

▷ Period
2018 –2019

○ Employer
KTH Royal Institute of Technology, Sweden

○ Position
Research Engineer

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

▷ Period
2015 – 2016

○ Employer
John Deere Werke, Mannheim, Germany

○ Position
Intern

○ Main responsibilities
- Optimization of Assembly Lines using Discrete-Event Simulation

▷ Period
2011 – 2014

○ Employer
TATA Technologies (TATA Motors), India

○ Position
Senior Simulation Engineer

○ Main responsibilities
- Validation of factory layouts and optimization of material flows
- Process simulation for fixtures, robots and other resources
- Conducting time-studies and creating questionnaires

▷ Period
2010 – 2011

○ Employer
TATA Technologies (TATA Motors), India

○ Position
Process Engineer

○ Main responsibilities
- 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 Descriptionand 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 18, 2020

Amita Singh