

# MUHAMMAD FAROOQ ARIF

*Master of Science (M.Sc.) Mechatronics  
Automation Development Engineer*



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## PROFESSIONAL EXPERIENCE

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02.2016 - present

### Automation Development Engineer

at Bielomatik Leuze GmbH + Co. KG, Neuffen, Germany

#### Key Responsibilities:-

- Planning and designing of automation systems (machines, stations, assembly and production lines) specialized in plastic welding operations for automotive industries.
- Providing totally customized solutions of automation systems to meet customer industry's requirements.
- Software programming of complete automation systems including PLCs, HMIs, KUKA Robots and other industrial field devices (drives, motors, controllers, pneumatic systems, sensors of various types, etc.).
- Algorithm development and Process planning to maximise machine's production efficiency and to fulfil different process' requirements.
- Simulation, testing and troubleshooting of automation system and to supervise its commissioning at later stage.
- Evaluation of customer industry's feedback and to identify and propose improvements in existing automation systems.

## HIGHER EDUCATION

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10.2013 - 09.2015

### Master of Science (M.Sc.) in Mechatronics Engineering

University of Applied Sciences Ravensburg-Weingarten, Germany

- **Scientific Project**  
"Automotive Data Acquisition via Cellular Android Platform"
- **Master's Thesis Project**  
"Anwahl von Roboterpositionen über standardisierte Eingabemasken"  
*(Positioning and Control of Robot via standardized input masks)*  
at ZF Friedrichshafen AG, Schweinfurt, Germany

10.2009 - 09.2013

### Bachelor of Mechatronics Engineering

National University of Science and Technology (NUST), Rawalpindi, Pakistan

- **Final-Year Project:**  
"Autonomous Control of Unmanned Ground Vehicle (UGV) Using Interactive Environment"

## AWARDS AND ACHIEVEMENTS

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- 2013 - **Best Final Year Project** award in BE Mechatronics, NUST, Pakistan
- 2012 - **2<sup>nd</sup> Runner-Up** of "All-Pakistan Robotics Competition"  
secured at Punjab Youth Festival, Lahore, Pakistan
- **Best Engineering Design Award** at "All Pakistan Robotics Competition"  
University of Engineering and Technology, Peshawar, Pakistan
- 2010 - **1<sup>st</sup> Runner-Up** of "Robotics Wall Following Competition"  
National University of Science and Technology, Rawalpindi, Pakistan

## OTHER WORK EXPERIENCE

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12.2015 - 01.2016	<b>Employee for Production</b> at ZF Friedrichshafen AG, Schweinfurt, Germany
06.2014 - 04.2015	<b>Night Auditor</b> in "Comfort Hotel Friedrichshafen", Friedrichshafen, Germany
2012 - 2013	<b>Trading with Notebooks</b> "Cabinet Technologies", Pakistan
2009 - 2012	<b>Home Tutions</b> for Chemistry, Physics and Mathematics

## COURSES/CERTIFICATIONS

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2017	- <b>KUKA Roboterprogrammierung 2</b>	KUKA College, Augsburg, Germany
2016	- <b>System-Umsteigerkurs auf SIMATIC S7-1500 im TIA Portal</b>	SIEMENS, Germany
	- <b>Introduction to Project Management</b>	University of Adelaide, Australia
2014	- <b>Inter Cultural Sensitization</b>	HSRW, Germany
	- <b>Working in International Team of Scientific Projects</b>	HSRW, Germany
2012	- <b>Android Application Development</b>	NUST, Pakistan
	- <b>3rd Pak-German Workshop on Field and Assistive Robotics</b>	LUMS, Pakistan
2011	- <b>1st Pak-German Workshop on Field Robotics</b>	LUMS, Pakistan
2010	- <b>Pro-E und CNC</b>	NUST, Pakistan

## SOFTWARE SKILLS

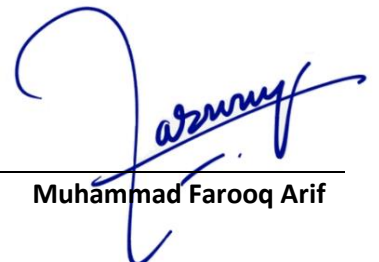
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- Simatic Step 7 / TIA Portal	(Siemens PLC/OP Programming)
- KUKA Work Visual / KUKA Sim.Pro	(KUKA Robot Programming)
- Simatic Win CC / ProTool	(Siemens OP Programming)
- Microsoft Visual Studio	(Image Processing, Controller Programming)
- MATLAB	(Numerical Analysis)
- AVR Studio	(Micro-Controller Programming)
- Eclipse	(Android Application Development)
- ARES	(Printed Circuit Board-PCB Design)
- Proteus ISIS Schematic / P-Spice	(Electrical Circuitry Simulation)
- Pro-Engineering (Pro-E) / PTC Creo Parametric	(Mechanical Designing)
- Auto CAD	(Mechanical Designing)
- High-level programming languages	(C++, VB, OOP, Java, SCL, KRL etc.)
- Low/Mid-level programming languages	(Assembly, Ladder, STL, etc.)
- MS Office, MS Outlook, Notepad++	(Office works)

## OTHER INFORMATION

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Languages:	- Urdu / Pakistani: Mother language
	- English: Expert level
	- German: Advanced level
	- Hindi / Indian: Expert level
	- Punjabi: Expert level
Driving License:	- German driving license: Class B
	- International driving license - Germany
Extra Activities:	- Badminton (Provincial team, Pakistan 2007-2009)
	- Table Tennis, Squash, Piano Keyboard
	- TED Talks, Discovery documentaries
LinkedIn Profile:	<a href="https://www.linkedin.com/in/muhammad-farooq-arif-0721312b">https://www.linkedin.com/in/muhammad-farooq-arif-0721312b</a>



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