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| PERSONAL INFORMATION | Faizan Ehsan Elahi |
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|  | Uppsala, Sweden |
| (+46) 72 246 3484 |
| ee\_faizan@yahoo.com |
| Skype ee\_faizan |

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| STUDIES APPLIED FOR | Master Studies in Embedded Systems |

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| EDUCATION AND TRAINING |  |

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|  | Bachelor of Science in Electrical Engineering | Undergraduate Degree (16 Year) |
| University of Engineering and Technology, Taxila (Pakistan) | |
| Grade: First division with Honors, 79% (Among Top 10%) | |

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|  | Intermediate (Pre-Engineering) | FSc/HSSC/12th grade |
| Board of Intermediate and secondary education, Gujranwala (Pakistan) | |
| Grade: A, 78% | |

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|  | Secondary School Certificate (Science) | Matriculation |
| Board of intermediate and secondary education, Gujranwala (Pakistan) | |
| Grade: A+, 82% (Highest in the school) | |

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|  | GRE Certificate (2016) |  |
| Quantitative Reasoning: 165/170, Verbal Reasoning: 152/170, Analytical Writing: 3.0/6.0​ | |

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| WORK EXPERIENCE |  |

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| Three Years | Team Lead at Digital Systems Lab |
| Institute of Applied Technologies (IAT), Islamabad (Pakistan) |
| As a team lead, I have been working with hardware designers and firmware developers for delivering digital systems. My key responsibilities are:   * Supervision of the hardware design, keeping in view of technical requirements and availability of the off the shelf components * Preparation of Software Requirement Specifications (SRS) based on the raw input from the user * Planning of the Software Detail Design (SDD) as per SRS * Supervision of the firmware development team for execution of SDD * Liaison with tester team and execution of tests at system level |

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| 2011–2012 | Freelancing Projects |
| Self, Islamabad (Pakistan) |
| * Remote data logging and tracking system for harvesting machines; an embedded device is designed that collects machine status and transmits it to the server using GSM Technology. * Smart temperature controller for industrial furnace; A reliable and ruggedized system that can regulate temperature up to 1500 degrees Celsius with an error bound of less than 1 degree Celsius |

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| Two Years | Design Engineer at Digital Systems Lab |
| Institute of Applied Technologies (IAT), Islamabad (Pakistan) |
| My key tasks are:   * Schematic and PCB designing employing DSP processors * Firmware development using C language in accordance with software detail design document * system level testing using hardware in loop simulators |

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|  | Academic Projects |
| * Intelligent Product Storage System (IPSS) for process industry based on 89S52   + Physical prototype to differentiate among different colored balls and store them accordingly * Linear predictive coding of speech signal   + Implementation and analysis of LMS, NLMS and Levinson Durbin algorithms for speech encoding using MATLAB * RISC processor design and implementation   + Synthesis of RISC architecture for 12 instructions with 4 bit accuracy   + Implementation on Spartan 3 kit * Kalman estimates based state feedback control to track noisy reference position   + Noise removal from reference position signal using state space recursive least squares   + State feedback control to track filtered reference based on estimates from Kalman algorithm * Digital clock using binary counter ICs |

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| PERSONAL SKILLS |  |

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| International language(s) | UNDERSTANDING | | SPEAKING | | WRITING |
| Listening | Reading | Spoken interaction | Spoken production |  |
| English | C1 | C1 | B2 | B2 | C1 |
|  | IELTS Overall Band 7.0 | | | | |
|  | Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user  [Common European Framework of Reference for Languages](http://europass.cedefop.europa.eu/en/resources/european-language-levels-cefr) | | | | |

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| Job-related skills | * Programming Languages: C/C++, Verliog/VHDL, Assembly language * Development Tools: Code Composer Studio, MS Visual Studio, Xilinx * Modelling and Simulation Tools: MATLAB / Simulink, ModelSim * Report Writing Tools: LATEX, MS Office |

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| Awards and Hobbies |  |

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| Honours and awards | * CEOs letter of appreciation, 2016 * Winner of Outstanding Talent Scholarship for undergraduate studies * 1st prize in NASCON-2009, all Pakistan Engineering Competition​ |

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| Extra-Curricular Activities | * Fond of Badminton, Hiking, Movies and Travelling * Organized team events such as badminton tournament and hiking trip at organization level |