# SYED SALIK HAFEEZ

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Davenport, IA 52807 ***US CITIZEN*** Email: salikhafeez44@gmail.com

***CAREER OBJECTIVE:***

To obtain a position as Software Engineer, thus utilizing my hardware and software programming skills to further develop a company’s product. At this point in my career, I am searching for a position that would be a perfect fit for learning and I am willing to relocate anywhere for the right opportunity.

***EDUCATION:***

**Master of Science***,* Electrical Engineering, minor Computer Science **GPA (3.48) *MAY 2016***

University of Minnesota Duluth, Duluth, MN

**Thesis focus:** Control Engineering, Nonlinear Optimal Control, SDRE.

**Bachelor of Engineering**, IIEE, NED University of Eng. & Tech, Karachi.**GPA (3.40) *JAN 2013***

### WORK EXPERIENCE:

**Cobham Mission Systems  *SEP 2019 – PRESENT***

*2734 Hickory Grove Rd, Davenport, IA 52804*

**SOFTWARE ENGINEER ΙΙ**

* Development of high reliability embedded application in accordance with DO-178, using Libero IDE
* System Integration Lab development using UEI Daq cards MIL1553, Arinc429, IO cards (XML,C#, pyhton)

**Aero System Engineering*. JUNE 2016 – JUNE 2019***

*358 E Fillmore Ave, St Paul, MN 55107*

**SOFTWARE ENGINEER, CONTROLS & COMPUTER SYSTEMS**

* Legacy Product in C/C++ Continuous changes and upgrades to the existing product.
* RTOS and STM32Fx (Auto Throttle Control System)
* Setup configurations for CF6-80C2, CFM56-7, -5B, -3 FADEC engines and Makila turboshaft engine.

**Research Assistant:** Medical-assist Robotic systems using EMG signals, UMD. ***AUG 2014 – MAY 2016***

**Teaching Assistant:** Electric Circuit Analysis (undergrad Course), UMD.

**Streamline Electronics Manufacturing*, Inc. MAR 2013 –SEP 2013***

*595 Yosemite Drive, Milpitas, CA 95035*

**ELECTRICAL TESTING ENGINEER**

* Developed UI interface for rework station software for streamline Electronics manufacturing, Inc. on (Visual Studio C#) Win-forms application, according to company requirement.
* Classify and resolve manufacturing defects of INTEL & Microprobe boards via Solder Paste Inspection machine (SPI) and Optical Inspection Machine (AOI).

### TECHNICAL SKILLS:

* **Programming Languages:** C#, Verilog, VHDL, and Assembly.
* **IDE/Compilers:** MS Visual Studio, Xilinx ISE, IAR Embedded Workbench, gcc, **freeRTOS**, AVR Studio, svn
* **Computing and Circuitry:** Matlab (Audio Processing, DSP), Proteus, LabVIEW, PSpice, RTL and Gate logic.
* **Tools:** Microsoft Excel, Spectrum Analyzer, Logic Analyzer, Oscilloscope, GIT Version Control, LabVIEW.
* **Embedded/Control Skills:** 8-bit & 32-bit Micro-controllers (AVR, PIC, **ARM Cortex-M4F**), DSP, FPGA, **Data Structure & Algorithms**, x86 Architecture, Linux, UART, I2C, SPI, RS232.

### ACADEMIC PROJECTS:

* Prosthetic hand utilizing EMG signals, under supervision of [Dr. Desineni Subbaram Naidu](http://www2.cose.isu.edu/~naiduds/) . UMD
* Programmed a single cycle **MIPS-32 Bits Processor (RISC)** on Nexys-3 spartan-6 FPGA board in VHDL using Xilinx ISE.
* DAQ card development on **FPGA**, interfaced with **LabVIEW** at NED (UET).
* Designed a **Position Control System** (Servo-Mechanism) and **Thermal Control System** (ATmega32 Microcontroller).
* GSM & internet monitoring of Automated Water Tube Boiler NED (UET).