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Objective statement

Senior (4th Year) student at the faculty of Engineering Alexandria University Communications Department .

Looking for internship opportunity at Swift Act .

Work experience :

Still an undergraduate , I graduate this year 2020.

Courses attended:

- Attended and finished a two- week course provided by ITI on PCB design using Mentor graphics tools (Expedition) .
- Attended and finished a two-week course provided by ITI on Embedded System Design (STM32F4 Controller Kit) .

Education

Senior Student (4th year) at The Faculty of Engineering Alexandria University (Communications Department) .

Projects and Skills :

Languages:

1- C Programming language experience , both embedded and general programming like win32 api and so on .

2- C++ Programming Language experience , (done some projects with QT (user interface for graduation project) as well as it is the preferred language to use on codeforces for competitions .

3- Background with Python / Verilog /VHDL .

Projects :

- AVR microcontroller experience with AVR-GCC tool chain.
- (wide array of projects and drivers using various AVR Micros like the ATtin2313 , atiny85 , atmega32,atmega16 .
- Graduation project worked on firmware design for the ATXMEGA32a4 .
- Took a student council provided ARM course based on the TIVA C Board .
- Some Experience with Make file scripts .
- ARM M3 Experience with the STM32F103 .
- ARM4 M4 Experience with STM32F429 Microcontroller.
- Some ARM Projects like :
 - 1-Audio application with I2S bus , on the STM32F429 Disco Board with PCM5102 and PCM1808 Audio Codecs , application involved sampling audio from PC doing DSP filtering on the Micro controller and then playing back the filtered samples .
 - 2-Drivers for STM32 SAI and I2S audio buses .
 - 3-Auto baud rate detection UART .
 - 4-USB device driver for the STM32F103C8T6 .
 - 5- Smart home system with ST TouchGFX TFT Driver for the touch screen interface .
- Some FPGA Programming Experience , in particular the Cyclone II family from ALTERA .
- Background with VERILOG and VHDL .
- DSP Background and some knowledge in designing digital filters.

- Universal EEPROM programmer with interfacing software written in win32 API .
- Closed loop feedback controller for an induction heater.
- 8085 microprocessor based digital multi-meter.
- 8086 based microprocessor system (College project) .
- Worked on ROV systems with robotics team .
- 16 MHz ASK modulator/demodulator driven by microcontroller's Oscillator .
- 8 - bit micro processor using 40xx chips .
- Able to communicate effectively with team members.
- Excellent Command of the English language .
- Research and Experimenting skills .
- Able to write 70 words/min .