

Saad Mahmood | Resume

SEECS-NUST, Islamabad, Pakistan

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Technical and Personal skills

- Knowledge of C/C++, Javascript and Python.
- Proficient in MIPS assembly, x86 and ARM assembly language. Have worked on PIC, STMicroelectronics and Atmel microcontrollers.
- Knowledge of development on Linux and with VCS's.
- Can write clean and commented code adhering to standards.
- Ability to work in a team. Can write organized and structured tech reports.

Work Experience

- **Mentor Graphics (now Siemens):** I worked with the Automotive Team to test Embedded Bootloaders. I developed a low latency and performant firmware burning C++ library which is currently being used by the Embedded Group at Volvo™.
- **CYKIQ Pvt. Ltd:** I coordinated a team of electrical engineers at CYKIQ to work on the startup's prototype. I primarily dealt with diagnostics of communication buses like I²C and SPI on the hardware side. On software side, I worked on the firmware of these controllers.

Awards and Accolades

- Best Intern at Mentor Graphics during Summer 2017.
- Runner-up in SEECS Social Hackathon 2016.
- Winner of Punjab Government Scholarship for extraordinary performance in High School.
- Awarded NUST Merit Scholarship in 5th and 6th Semester for outstanding performance in studies.

Interests and Hobbies

- Low-level programming like firmware and device drivers.
- Open source hardware and software development.
- Electronics that make life easier like Internet of Things.
- PCB design and retro hardware teardowns to understand their functionality.

Education

- **SEECS-NUST**
○ *BSc.(Hons) Electrical Engineering, maxGPA 3.94, CGPA 3.32* *Sept 2014 - June 2018*