



## Ali Nauroze

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**Date of birth:** 16/09/1998 | **Phone number:** (+92) 3366496825 (Mobile) |

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<https://github.com/alinauroz> | **WhatsApp Messenger:** +92 347 8814739 |

**Address:** House # 281/106, street 18, Gulberg colony, 60000, Multan, Pakistan (Home)

### ● ABOUT ME

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I am a dynamic electrical engineer with a diverse background spanning various fields. My profound passion for technology has driven me to engage in numerous projects, showcasing my expertise in FPGA and microcontroller applications. Leading teams in the development of sophisticated solutions that intertwine modern electronics and computer science has been a hallmark of my professional journey. I am enthusiastic about contributing to open-source initiatives, and my commitment to learning ensures that I stay updated with the latest advancements in my field.

### ● WORK EXPERIENCE

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02/02/2022 – CURRENT

#### SOFTWARE ENGINEER COBUDGET

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- Core contributor and lead developer at Cobudget.com, driving open-source initiatives by fixing issues and handling new feature requests on Github.
- Pioneered the integration of OpenCollective with Cobudget, resulting in a substantial 50% increase in the user base, underscoring a commitment to community-driven development.
- Enhanced the efficiency of database queries to accommodate a growing user base, contributing to a more responsive user experience in this open-source environment.

**Website** [www.cobudget.com](http://www.cobudget.com)

**Link** <https://github.com/cobudget/cobudget/>

20/12/2020 – 31/12/2023 Remote

#### SOFTWARE ENGINEER HELPA.CO

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- Led and managed a team of four developers, fostering collaboration among cross-functional teams to streamline project development and enhance overall productivity.
- Developed intricate components for Helpa.co's website, including the Timeline feature, contributing to an enriched user experience.
- Effectively managed bug reports and feature requests, ensuring timely resolution and continuous improvement of the software.

01/08/2019 – 31/10/2019 Islamabad, Pakistan

#### ELECTRONICS ENGINEER NATIONAL INSTITUTE OF LASER AND OPTICS

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- Developed a web-based application for generating 2D grid maps using Lidar technology during the internship at the National Institute of Laser and Optics.
- Utilized React, NodeJS, and websockets to build the interactive web application, showcasing proficiency in modern web development technologies.
- Engineered hardware components using NodeMCU, servo motors, and Lidar, contributing to the practical implementation of the created web application.

**Website** [www.nilop.edu.pk](http://www.nilop.edu.pk)

- Created BLE-based Indoor Positioning System mobile app during National Institute of Electronics internship
- Demonstrated expertise in mobile app development and practical BLE technology application

## ● EDUCATION AND TRAINING

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19/09/2016 – 22/07/2020 Islamabad, Pakistan

**BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING** Pakistan Institute of Engineering and Applied Sciences

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**Website** [www.pieas.edu.pk](http://www.pieas.edu.pk) | **Field of study** Electronics and automation | **Number of credits** 274 |

**Thesis** Design and Implementation of Hardware Security Module

## ● LANGUAGE SKILLS

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Mother tongue(s): **URDU**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	C1	C1	C1	C1	B2

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

## ● DIGITAL SKILLS

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Python, Matlab, SQL | Data Processing, Pandas, Numpy, scikit-learn | C++, Go, Typescript | GraphQL, Rest Api | PostgreSQL, MongoDB, Couchbase | Redux, E2E Testing, Integration Testing | Concurrent and Distributed Programming | Verilog, VHDL, FPGA, LTSpice

## ● ADDITIONAL INFORMATION

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### RECOMMENDATIONS

**Hugi Ásgeirsson** Product Manager

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I've had the privilege of having Ali on our team as a full-stack JavaScript developer, working on the Cobudget platform since 2022 and acting as lead developer since the start of 2023. His skills and commitment have significantly contributed to the success of our projects. Ali's proficiency with a sophisticated tech stack, including Next.js, GraphQL, Apollo Client, and Prisma, has been instrumental in creating an efficient and user-friendly application. Ali's dedication and technical acumen make him a strong developer and a valuable asset to any team. I wholeheartedly recommend Ali to any future employer or collaborator.

**Email** [hugi@cobudget.com](mailto:hugi@cobudget.com)

**Link** <https://www.linkedin.com/in/alinauroz/>

**Dragos Grozavu** ex-CEO Cognitive Automation Technologies

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I had the privilege of working with Ali for over two years. In addition to being a top software developer, he's also an amazing team player, with an elite work ethic.

**Link** <https://www.linkedin.com/in/alinauroz/>

## **PROJECTS**

### **Design And Implementation of Hardware Security Module**

- Conceptualized and implemented a Hardware Security Module (HSM) for the thesis and final year project, showcasing expertise in hardware design and cybersecurity.
- Developed robust encryption and authentication mechanisms within the HSM, ensuring secure storage and processing of sensitive information.
- Integrated HSM into existing systems, emphasizing compatibility and reinforcing data security. Engineered to support diverse protocols, including HTTP and Modbus, ensuring adaptability across various communication frameworks.

### **Ventilator Design and Development for a Startup Initiative**

- Collaborated with engineers to design and develop a ventilator, fostering a collective effort towards impactful healthcare solutions.
- Utilized Node.js and Electron to create a user-friendly interface for the ventilator monitoring system, ensuring seamless integration and a responsive user experience.
- Leveraged Raspberry Pi as a microcontroller, expertly incorporating button inputs to capture essential data, and displayed real-time information on the interface for instant accessibility.

### **Robotic Wheelchair Prototype: Designed and Developed with Fuzzy Logic for Healthcare Advancements**

- Spearheaded the design and development of a robotic wheelchair prototype, integrating cutting-edge fuzzy logic technology to enhance functionality and address healthcare needs.
- Applied advanced knowledge of robotics in the project, demonstrating a nuanced understanding of its applications in creating a responsive and adaptable robotic wheelchair for healthcare settings.

### **Multistage Audio Amplifier Design**

- Designed and implemented a multistage audio amplifier circuit using transistors, mic, and speaker.
- Achieved significant audio signal amplification with clear and distortion-free output.

## **HONOURS AND AWARDS**

2019

**Winner IEEE Region 10 Student Branch Website Competition – Institute of Electrical and Electronics Engineers (IEEE)** Led Website Team to Achieve 1st Position in IEEE R10 Student Branch Website Competition (Asia Pacific Region)

**Link** <https://www.alinauroze.com/ieee-website.pdf>