

Bahador Rousta

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Who Am I!

I am an enthusiastic and dedicated student in the final semester of my Bachelor's degree in Electrical Engineering in **k.n.toosi University of Technology**. My academic goal is to advance my understanding of innovative technologies—particularly in the fields of artificial intelligence and app development—through rigorous graduate study and engaging in cutting-edge projects. During my internship and subsequent work experience in **Control System Abzar Nowin** company, I honed practical engineering skills and developed a passion for software development. I am a highly ambitious person who relentlessly pursues my goals with unwavering determination, all while upholding exceptional punctuality and a steadfast commitment to professionalism.

Education

K.N.Toosi University Of Technology, BS in Electrical Engineering Sept 2020 – May 2025

- GPA: 3.46/4.0
- **Coursework:** Electronic, Digital Systems, Control Systems, Communication, Computer Network, Advanced Programming

Experience

Software Engineer Intern, Control System Abzar Nowin – Iran, Tehran Sept 2023 – ongoing

- Continue working with the XRF analyzer desktop application and improving the UI/UX experience.
- Integrated more functionalities and introduced a lot of different parts in the application for manipulating related data such as peak searching, method creation, and advanced graph usage
- Add inter-communication between another software the company had built before using sockets
- Package a basic version of the application to be included in the analyzer bundle the company offers

Software Engineer Intern, Control System Abzar Nowin – Iran, Tehran June 2023 – Sept 2023

- Understand how companies work and what an engineering department must follow
- Created a module for handling XRF's spectroscopy results and have some basic functionalities such as calculating intensities and coefficients.
- Integrate unit tests to have a solid foundation if additional updates were to be made
- Built a GUI desktop app to demonstrate the noise-removal algorithm that can be used in XRF analyzers

Projects

PyQt6 Dictionary Application Bahadorrj/Dictionary-App

- Developed an application for gathering your own words and seeing their definitions, parts of speech, and example sentences. One can optionally start reviewing the words they have added using an ANKI app-like algorithm.
- Tools Used: Python, PyQt6, HTTP Requests

Minesweeper with AI Bahadorrj/Mine-Sweeper

- A Python implementation of the classic Minesweeper game, enhanced with an AI player that learns and deduces safe moves to intelligently play the game. The AI uses logical inference to mark cells as safe or as mines and makes random moves when necessary.
- Tools Used: Python, pygame

Music Selector Bahadorrj/Song-Selector-App

- A web application showcasing a collection of songs with interactive selection functionality. Visitors have playback features. Additionally, they can select their favorite piece and submit their choice along with a name.

- Tools Used: Python, Flask, JavaScript, HTML, CSS, Sqlite, PostgreSQL

Technologies

Languages: Python, C++, C, Java, JavaScript

Technologies: Qt Designer, Qt Design Studio