

# Eman Barakat

Frontend Engineer React

Cairo, Egypt

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<https://github.com/EngEmanBarakat/EngEmanBarakat.github.io>

## Summary

Mechatronics Engineer with strong problem-solving and communication skills, transitioning into front-end development. Developed a responsive Ecommerce furniture website with HTML5, CSS3, and JavaScript, focusing on intuitive UI/UX design for seamless navigation. Currently building a booking system to further enhance my front-end capabilities. Familiar with React, Bootstrap, TypeScript, REST API, and Git, with a keen interest in implementing user-centered interfaces. Combines analytical engineering skills with attention to functional yet visually appealing web design. Seeking a job opportunity to collaborate with teams, refine my UI/UX expertise, and deliver impactful digital experiences. Eager to contribute as an employee, learn from experienced teams, and grow into a proficient developer.

## Skills

JavaScript • HTML/CSS • Git • React • OOP • Python • Data structure • Algorithm • Bootstrap • Tailwind • TypeScript.

## Work History

### E-commerce website Feb 2025 – Mar 2025

#### Technologies: HTML/CSS • JavaScript

- Developed a fully responsive e-commerce website for furniture sales with a clean, user-friendly interface.
- Implemented product listings with filtering options (by price, category) for easy navigation.
- Built an interactive shopping cart (add/remove items, quantity adjustment) using JavaScript.
- Designed a checkout page with form validation for shipping and payment details.
- Enhanced UX with animations, hover effects, and a mobile-friendly layout using CSS Flexbox/Grid.
- Used localStorage to persist cart data even after page refresh.

### Autonomous Ackermann Vehicle Apr 2023 – Jul 2023

#### Technologies: Python • ROS • Raspberry Pi • Gazebo

The game is a turn-based, 2-player card game where each player takes control of a popular hero from the Warcraft universe. Based on the chosen hero, each player is dealt a deck of cards to defeat the opponent's hero using Java and OOP.

### Machine testing plastic gear [Bachelor project] Apr 2022 – Jun 2022

#### Technologies: Arduino

Testing plastic gears through temperature sensor and speed sensor in real-life experiments.

### Re-Implement Hearthstone Card Game Apr 2019 – Jul 2019

#### Technologies: JavaScript • OOP

The game is a turn-based, 2-player card game where each player takes control of a popular hero from the Warcraft universe. Based on the chosen hero, each player is dealt a deck of cards to defeat the opponent's hero using Java and OOP.

## Education

**Bachelor's degree: Mechatronics Engineering** Aug 2018 – Jul 2023 • 4 yrs 11 mos The German university in Cairo  
Cairo, Egypt

- **Programming & Automation:** Applied coding in Python, C++, JavaScript, and MATLAB for robotics, embedded systems, and control algorithms.
- **Web Development:** Built projects (e.g., furniture e-commerce site) using HTML, CSS, JavaScript
- **Microcontrollers & IoT:** Programmed **Arduino, Raspberry Pi** for sensor-based automation projects.
- **Problem-Solving:** Developed algorithms for real-time mechatronic systems, demonstrating logical thinking and debugging skills.

## Languages

**English** (Professional working proficiency)

**German** (Elementary proficiency)

