Cover Letter

Dear Sir/Madam,

As a final-year engineering student at the University of KwaZulu-Natal, I bring a strong foundation in both software development and hardware systems, coupled with a passion for innovation and problem-solving.

Throughout my academic journey, I have honed my technical skills in languages such as Delphi, Java, C, C++, Assembly, and SQL, and I am proficient in Object-Oriented Programming. My coursework and projects have provided hands-on experience with electrical components and microprocessors, enabling me to design and implement efficient, practical solutions to engineering challenges.

In addition to my technical expertise, the rigorous nature of my engineering degree has equipped me with advanced problem-solving abilities and strong mathematical acumen. These skills have been instrumental in both my academic projects and collaborative team efforts, where I consistently strive to deliver results that exceed expectations.

I am excited about the opportunity to bring my technical abilities and problem-solving mindset to the team. I am confident that my passion for technology, my track record of consistency and hard work would make a meaningful impact at your company/organization.

Please find my CV below. Thank you for considering my application. I look forward to the possibility of contributing to the success of your team.

Sincerely,
Jashin Sewpersad

Jashin Sewpersad

Personal Statement

Final-year engineering student at the University of KwaZulu-Natal with a strong foundation in software development and hardware systems. Proficient in programming languages, microprocessor applications, and problem-solving. Seeking an opportunity to contribute to innovative projects while furthering my professional growth.

Education

University of KwaZulu-Natal

 Bachelor of Engineering in Computer Engineering

2021 – Present

- Relevant Modules: Design, Computer Programming, Mathematics, Analogue Circuits, Software Engineering, Digital Electronics, Operating Systems etc.
- Academic Achievements: Deans Commendation 2021

Northwood Highschool

 Matric Certificate

2020

- Achievement: 79% Aggregate

Technical Skills

- **Programming Languages:** Delphi, Java, C, C++, Assembly, SQL, Python
- **Concepts:** Object-Oriented Programming, Algorithm Development, Signals and Systems, Microprocessor Programming, Engineering Design
- **Hardware:** Microprocessors, Electrical Components, Embedded Systems
- **Tools:** MPLAB, Proteus, MATLAB
- **Other Skills:** Advanced problem-solving, mathematics, team collaboration

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Projects

Air Quality Monitoring System

- Designed and implemented a low-cost air quality monitoring system using the PIC16F690 microcontroller and MQ-135 sensor.

- Integrated LCD displays and buzzer alarms to indicate real-time air quality levels.

- Applied skills in assembly programming and hardware interfacing.

Temperature Monitoring System

- Utilizing LM35 sensors, real-time data analysis and display capabilities.

Collaborated on a Smart Lecture Venue System

- People Counter: Using lasers and LDR's, along with counter circuit, Buck converter and current stabilizer to count people entering/exiting a venue.

Work Experience

SiVEST Training Program
September 2019

- Focused on developing skills in Project Management, Quality Management as well as experience in different engineering industries and environments.

Engineering Workshop Course

July 2022

- Attended and completed a workshop that taught practical engineering practices (such as welding and circuit design), provided insight on working in industry and that promoted team building and leadership skills.

Achievements & Awards

- Deans Commendation (2021)

- Certificate of Merit (2021 & 2022)

Contact Information

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