Sumit Namdeo Gore

Embedded Systems Engineering Student

Motivated and self-driven Embedded Systems Engineering student with a track record of successfully developing and implementing solutions in the field.

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Work Experience

Research Assistant (University of Turku, Finland)

June 2022 - August 2022   Turku, Finland

Tasks
- Conducted research on Ultra-Wideband (UWB) and Motion Capture systems, resulting in a 30% improvement in drone localization accuracy.
- Integrated AI and ML technologies into drones, leading to a significant enhancement in autonomy and decision-making capabilities, with improved object detection accuracy, navigation efficiency, and obstacle avoidance effectiveness.

Product Development Manager (DGZ Machines, India)

July 2019 - July 2021   Pune, India

Tasks
- Successfully designed and implemented digital circuits for smart vending machines and incinerators, leading to a cost reduction of more than 40% and eventually making it one of the most cost effective products in India.
- Acquired hands-on experience in designing and producing customized cost effective embedded systems that resulted in a 200% increase in revenue.

Process Design Engineer (Subhadra Agro, India)

*Subhadra Agro is family owned business controlled by my family
August 2018 - June 2018   Pune, India

Tasks
- Designed a manufacturing process for Jaggery (Raw Sugar) that reduced human intervention by 90%, resulting in improved product cleanliness and hygiene.
- Led machinery selection and procurement efforts, resulting in 20% savings in capital investment also ensuring that the manufacturing process met stringent quality standards and hygiene standards.

Research Intern (University of Arkansas at Little Rock, USA)

June 2018 - July 2018   Little Rock, USA

Tasks
- Conceptualized and developed a Driver Drowsiness Detection System by utilizing Raspberry Pi as the core platform, enabling real-time processing.
- Integrated camera and accelerometers, combined with OpenCV and custom algorithms, resulting in a 10% accuracy in detecting driver drowsiness and driving patterns over exisitng research.

Education

Dual Degree MSc in Embedded Systems (University of Turku, Finland and Technical University of Berlin, Germany)

August 2021 - Pursuing   Interim Grade: 4/5   Turku Finland & Berlin, Germany

- Learning / finished courses in Hardware Desingn Languages(VHDL), Perception and Navigation in Robotics, Hardware Acceleration for Robotics and AI, Autonomous Systems Architecture and Energy Efficient Embedded Systems.

Bachelors of Engineering in Electrical Engineering (Savitribai Phule Pune University, India)

August 2014 - May 2018   Grade: 70/100   Pune, India

- Finished courses in Fundamentals of Microcontrollers and Microprocessor, Advanced Microcontroller, Architecture Analog and Digital Electronics, Control Systems and Fundamentals of Programming Languages.

Languages

English (C1)
German (A1)
Marathi (C2)
Hindi
Finnish (A1)

Digital Skills

`Javascript` `Python` `C, C++`
`VSCode` `Eclipse` `GIT`
`Office Suites`
`Adobe Creative Cloud`

Projects

- Water Usage Monitoring and Leakage Prevention (Project Watr)
- Feature based Assembly Process and Manufcaturing (AssembleIO)
- Drone Show (Lumifly)
- Driver Drowsiness Detection System

Read more at sumietgore.com/projects

Interests

- Community Service
- Gaming
- Ping Ping
- Tech Podcasts