SEBASTIAN JAMES

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🎓 EDUCATIONAL PROFILE

COURSE	INSTITUTION	BOARD	AGGREGATE	YEAR
B.Tech (Electronics and Communication Engineering)	Govt. Model Engineering College, Thrikkakara	KTU	8.8	2021
Class XII	Campion School, Edappally	CBSE	95.6%	2017
Class X	Campion School, Edappally	CBSE	95%	2015

🎯 AREAS OF EXPERTISE

- **Technical Skills:** Python, C++.
- **Areas of Interest:** IoT, Neural Networks, Big Data.
- **Operating Systems Known:** Windows, Linux, Android.
- **Soft Skills:** Time Management, Leadership Qualities, Work Ethics, Problem Solving, Teamwork.

💼 WORK EXPERIENCE

- **Company: SMEClabs, Aluva**   **Post: Trainee**   **Duration: 3 months**
  - Joined training for the course – Advanced Post Graduate Diploma in Embedded systems and hardware design and learned about two microcontrollers.
  - Gained hands-on experience in simulating microcontrollers and writing programs to interface 4 x 4 keypad, motor, LED and LCD.
  - **Technology(s) Used:** PIC18F4580, AVR, Arduino UNO, MPLAB, AVR studio, Proteus, C.

- **Company: Neo Green Labs, Edappally**   **Post: Intern**   **Duration: 5 days**
  - Gained hands-on experience for Interfacing sensors and actuators with Arduino Uno and developed a security system as a project.
  - The project involved designing a prototype giving access when either entering a valid pin or swiping RFID with valid code.
  - **Technology(s) Used:** Arduino UNO, Embedded systems.

- **Company: SMEC Automation, Aluva**   **Post: Intern**   **Duration: 2 weeks**
  - Learned the concepts of ladder logic using relays on LogixPro simulation platform as part of industrial automation.
  - The project involved designing and simulating a junction traffic signal based on relays and timers so as to implement automation.
  - **Technology(s) Used:** LogixPro

🛠 PROJECTS

- **Project: Touch 'n' Roll**   **Team Size: 5**   **Duration: 1 month**
  - Developed a prototype which is aimed at empowering a disabled/paralyzed person to operate their wheelchair using the slightest movements of any body part. The user could alarm others using a buzzer when in distress and also control the connected devices nearby just by voice; the prototype also involved an ECG monitor.
  - **Role:** Testing and debugging.
  - **Technology(s) Used:** Arduino UNO, NodeMCU.

- **Project: NOVA reader**   **Team Size: 4**   **Duration: 1 month**
  - The prototype is aimed to help people who have difficulty reading the details on a product, for example like in a supermarket. The reader was designed in the shape of a palm sized bar. The prototype includes object detection and QR/barcode reader. The user could point the reader to the object and would be able to hear an audio describing the object.
  - **Role:** Project Manager and ideator.
  - **Technology(s) Used:** Raspberry Pi 3B, OpenCV.

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Govt. Model Engineering College
APJ Abdul Kalam Technological University
Kochi

COURSES AND CERTIFICATIONS

- Completed online **5 courses specialization** on **Python For Everybody** offered by **University of Michigan** on **Coursera**.
- Completed **Career Edge Knockdown the Lockdown online course** on **Soft Skills** offered by **TCS iON**.
- Completed online **5 courses specialization** on **Deep Learning** offered by **deeplearning.ai** on **Coursera**.
- Completed online course on **Programming in Java** offered by **IIT Kharagpur** on **NPTEL.**
- Completed online training on **Android App Development** involving **Kotlin, XML, SQLite** offered by **Internshala Trainings**.
- Completed online course on **Introduction to Internet of Things** offered by **IIT Kharagpur** on **NPTEL**.
- Completed online course on **BigData and Hadoop** offered by **CodeTantra**.
- Completed online course on **Programming, Data Structures and Algorithms Using Python** offered by **IIT Madras** on **NPTEL**.
- Completed online course on **Introduction to Data Science in Python** offered by **University of Michigan** on **Coursera**.
- Completed online course on **Introduction to Programming with MATLAB** offered by **Vanderbilt University** on **Coursera**.
- Completed **Building Basic Relational Databases in SQL Server Management Studio** authorized by **Rhyme** through **Coursera**.
- Completed online course on **Technical Support Fundamentals** offered by **Google** on **Coursera**.
- Completed online course on **Science of Well Being** offered by **Yale** on **Coursera**.
- Completed online course on **Successful Negotiation: Essential Strategies and Skills** offered by **University of Michigan** on **Coursera**.
- Completed online course on **Introduction to Git** on **DataCamp**.
- Completed online course on **Introduction to Scala** on **DataCamp**.
- Completed online course on **Step into Robotic Process Automation** on **GUVI**.

POSITIONS OF RESPONSIBILITY

- **Class Representative**, **2019-2020**, an interface between students and faculty, Govt. Model Engineering College.
- **Elected Representative**, **Senate 2019-2020**, the governing student body, Govt. Model Engineering College.
- **Mixed Signals Core, 2020**, an electronics student association, Govt. Model Engineering College.

ACTIVITIES AND ACHIEVEMENTS

- Reached **semi-final** in **India Innovation Challenge Design Contest (IICDC) 2019,** organized by **DST & Texas Instruments (TI) Inc.** powered by **AICTE** mission**,** anchored by **NSRCEL@IIMB** and supported by **MyGov.**
- Secured **2nd prize** for **BUILD.INIT() Hardware HACKATHON** held as part of Takshak 2019, the techno-managerial fest of Mar Athanasius College of Engineering.
- Secured **2nd prize** for **WAVE CLONING** held as a part of Excel 2019, the techno-managerial fest of Govt. Model Engineering College.
- Secured **2nd prize** for **EXTRINSICITY** held as a part of Excel 2019, the techno-managerial fest of Govt. Model Engineering College.
- Secured **3rd prize** for **MECLABS** held as part of Excel 2019, the techno-managerial fest of Govt. Model Engineering College.
- Secured **3rd prize** for **EXTRINSICITY** held as a part of Excel 2018, the techno-managerial fest of Govt. Model Engineering College.
- Attended a workshop on **Drone Development** held as part of Dhwani 2020, cultural fest of College of Engineering Trivandrum.
- Attended a workshop on **Linux Fundamentals** held as part of **Mixed Signals,** an electronics student association of Govt. Model Engineering College**.**
- Attended internship on **Radio Broadcasting** at **Akashvani-AIR**.
- Attended internship on **IoT** at **Model Finishing School**.

REFERENCES

- Dr. Vinu Thomas, Principal, Govt. Model Engineering College, Thrikkakara. Email ID: principal@mec.ac.in.
- Dr. Laila D, HOD, Electronics and Communication Engineering, Govt. Model Engineering College, Thrikkakara. Email ID: hodec@mec.ac.in.