Joy Raven Vargas

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Personal Profile: Computer and Communications Engineering graduate and previously completed an Ordinary bachelor's degree in Electronics and Communications Engineering. A solid academic background with inclusive skill set. Self motivated and able to respond positively to pressurised environment. A team player who is genuinely commited to undertake delegated tasks and able to motivate a team; can also adhere well to work processes. Works well with other colleagues to achieve objectives on time with excellence.

Education

2020 –	Bachelor of Engineering (Hons) BE in Computer and Communications
2022	Technological University Dublin, Grangegorman Lower, Dublin 7
Subjects:	Internet of Things, Operating Systems, Computer Architecture, Digital
	Communications, Business and Management Studies, Wireless Communications,
	Communications Networks, Instrumentation, Field and Circuitry Theory, Regulatory
	Environment and Engineer in Society, and Mathematics.
2017 –	Bachelor Engineering Tec (Ord) Electronics and Communications Engineering
2020	Technological University Dublin, Kevin Street, Dublin 2
Subjects:	Communication Systems, Communication Skills, Computer Systems, Digital Age
	Technology, Digital Communications Engineering, Digital Electronics & VLSI DSP
	Applications, Electronics Electric, Circuits & Devices, Electronic Systems & Practice,
	Engineering Science, Mathematics, Microcomputer Systems, Software Design,

Project

IoT Project: Co2 Concentration Level

Software Systems, Signals & Systems

- Created an IoT project that used a sensirion sensor to measure CO2 levels in a room. The data collected is sent over Bluetooth (BLE) and saved in the cloud and databases.
- The Microbit is connected to the CO2 sensor (peripheral device). Reading CO2 measurements and writing a new threshold were among the functions written and flashed onto the Microbit.
- When the CO2 concentration in a room exceeds the threshold value, the Microbit's light emitting diodes (LEDs) flash, indicating that the CO2 concentration is too high.
- The user connects to the peripheral device through a phone app called BLE scanner, which reads the CO2 measurements and writes a new threshold value to the peripheral device.
- A central device which runs on Raspberry Pi Microprocessor reads the sensor data from peripheral device and sends it to and MQTT broker, which temporarily stores data in the cloud.
- CO2 values are stored in MariadB and influxdB databases. A web page called Grafana was then used to display the data in real-time from both databases in a graphical way.

Employment

Graduate Field Service Engineer BMS

June 2022 – Present: Schneider Electric, Block A Maynooth Business Campus, Maynooth, Co. Kildare

- Oversaw installation of a multi-million data centre project, ensuring timely commissioning and successful integration.
- Collaborated with senior engineer to complete Hand Over to Customer and Integrated System Test for each phase of the data centre.
- Produced software backups and executed daily checks for accuracy and completeness.
- Conducted preventive maintenance checks and fault finding on BMS controls, HVAC systems and access control using various BMS system such as EcoStruxure Building Operation (EBO) and Continuum, reducing downtime incidents.
- Created detailed documentation for all hardware and software installations and troubleshooting processes resulting in an improvement in workflow efficiency.
- Communicated effectively with engineers and subcontractors on-site, driving successful completion of customer projects in a timely manner.
- Followed Health and Safety procedures and requirements.

Skills and Personal Qualities

Technical Skills - Knowledge in EcoStruxure Building Operation Workstation software, programming languages such as C, C++, SQL, Arduino and MATLAB, and Microsoft applications such as Word, PowerPoint and Excel.

Critical thinking and Problem-Solving Skills – Developed and enhanced through completion of college works/projects that required critical thinking and problem-solving skills.

Flexibility and Adaptability - Ability to perform varieties of tasks under pressure efficiently and to adjust to any stress in the environment. This skill is developed in the workplace as well as college activities where collaborations with variety of people is required.

Team Player and Leadership skill – Remains responsible and ensures not to become a burden to colleagues. Always takes the initiative to do things accordingly and encourage other group members to participate in a project or activity.

Trainings

Manual Handling course

• Safe Pass Training

- Mobile Elevated Work Platforms (MEWP) Training
- Working at Height

Interests/Achievements

- Active member of Electrical & Electronic Engineers group on LinkedIn
- Attained a full Irish driving license
- Achieved excellence award in Science from Maynooth University

Referees

Name: Vincent Fitzgerald Operations Manager Tel No: +353 (0) 868030314 Email: <u>vincent.fitzgerald@se.com</u> Name: Donal Walsh BMS Service Team Leader Tel No: +353 (0) 877033456 Email: <u>donal.walsh@se.com</u>