

# Hector Valle

## COMPUTING SCIENCE STUDENT

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### PROFILE

- An enthusiastic Science in Computing student with a background in Mechatronics Engineering, bringing a unique blend of technical expertise, problem-solving skills, and adaptability.
- Seeking an Entry Java Developer position to combine the data analysis abilities I have obtained alongside a passion for coding to contribute to the development of cutting-edge technologies.
- Right to Work and Availability:** Currently on a Stamp 2 Visa. Eligible to work 20 hours part time during term time and full time 40 hours from June to Sept 2025. Eligible to apply for the 1G Visa under the Third Level Graduate Scheme in September 2025 and will then be available to work full time without requiring a work permit for 1 year.

### TECHNOLOGY SKILLS (Entry-Level)

- Programming Languages (**Beginner**): Java, Python, SQL, VBA, HTML.
- Databases (**Beginner**): MySQL, R Language.
- Concepts (**Foundational Understanding**): Data Structures & Algorithms, Object-Oriented Programming, Software Engineering, Spring boot architecture, REST.
- Certifications (Most Recent):**
  - Java Data Structures and Algorithms | Udemy February 2024
  - Google Cybersecurity Analyst | INCO Academy July 2024
  - Data Analytics Certificate | INCO Academy Dec 2023
  - Introduction to Python | October 2023

### EDUCATION

**Sept 2024 - Present | National College of Ireland.** **Higher Diploma in Computer Science**  
**Modules:** Relevant Coursework: Data Structures and Algorithms, Object-Oriented Programming (Python), Database Management (SQL), Software Engineering, Web Development (HTML, CSS, JavaScript).

**Aug 2015 - Sep 2019 | National Technology Institute of Mexico.** **BSc in Mechatronics Engineering**  
Professional license – 12873560.

### WORK EXPERIENCE

**09.2023 - Present | 3FE – Dublin, Ireland.** **Senior Chef**

- Orchestrated efficient meal preparation for up to 70 covers during peak hours, collaborating with a 15-person kitchen team while maintaining strict HACCP compliance.
- Conducted training sessions on preping techniques and safety protocols, enhancing team efficiency and performance.
- Maintained stringent hygiene standards resulting in consistently high health inspection scores.
- Led the kitchen staff at Clancy Quay 3fe branch, ensuring efficient operations during busy service hours.

**01.2021 - 02.2023 | Cevichero 21 - Saltillo, México.** **Chief Administrative Officer**

- Applied **data analysis skills** (VBA Excel) to **identify cost-saving opportunities** and to implement inventory control processes. This **resulted in a 5% reduction in operational labor and contributed to have up to 5% in cost savings.**
- Implemented robust **inventory control measures** to optimize stock levels, resulted in **streamlined and standardized operations.**
- Negotiated volume purchases with suppliers resulting in **a special customer discount of 10% and a credit line up to 30 days.**
- Oversaw all four fast food branches and the production kitchen, **leading a team of up to 25 staff members** to ensure smooth daily operations and high-quality service.

**09.2019 - 05.2020 | General Motors - Ramos Arizpe, México.**

**Dimensional Performance Engineer**

- **Led a 4-person team** in the analysis of new vehicles components, **developing data visualizations and actionable insights** using Siemens Teamcenter CAD and Hexagon Romer Measuring Arm.
- **Found errors in 137 nominal values** in the CMM (Coordinate-measuring machine) code; this code measures 300 critical dimensional points. This resulted in **rising the dimensional metrics from 70% to a 88% of acceptance**.
- **Conducted root cause analyses on dimensional issues**, leading to the implementation of corrective actions that improved overall part quality and preventing recurrence.
- Identified and resolved bottlenecks, breakpoints, and failures in systems

**06.18 - 09.19 | General Motors - Ramos Arizpe, México.**

**Controls Engineer**

- Engineered an automated online data acquisition program using VBA Excel Macros that **gathered data from 75 live sensors, over 11 categories. By the 3<sup>rd</sup> month, the system gathered over 200,000 new data values to analyse and discover new patterns of the performance of 2 production lines with 5 press systems each.**
- **Improved data accuracy by 15%** through the implementation of a new data validation process.
- Collaborated with cross-functional teams to integrate new stamping technologies, resulting in an improvement in part quality controls.
- **Provided technical support and training** to maintenance staff, **improving their ability to diagnose and resolve** control system issues quickly

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## **INTERESTS AND ACHIEVEMENTS**

### **General Motors Global Manufacturing System Audit**

- Recognised by General Motors as a “Creative and Innovative” engineer during the GMS Stamping Plant 2019 - Quality Audit for the online data acquisition program.

### **Chaired the International Congress Progressus 2016**

- Commemorating the 75<sup>th</sup> anniversary of the Technological Institute of Saltillo, this main event hosted 2,500 university students and 19 speakers over 3 days.

### **MTB Mountain Biking**

- Enthusiastic/passionate about mountains and bicycles, with a personal achievement of completing a 110 km in 8 hrs. at La Rioja Hill in Arteaga, Mexico.

### **Travelling for adventures**

- Keen traveler and my last adventure were in Gloucestershire, England in 2024 for their annual Cooper’s Hill Cheese-Rolling and Wake.