Luka Cvetkovic

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EDUCATION

Luttrellstown Community College **2020 - 2024**

Junior Cycle (2020 - 2023)

Transition Year (2023 - 2024):

Internships / Work Experience:

IBM:

Learned about different business sectors in IBM such as AI, Cloud operations, Sales, Cybersecurity and Research and toured the IBM office

eBay:

Learned about marketing, toured the eBay office, learned about different teams working in eBay and visited the customer support division.

Dominic Smith Electrical:

Worked for 2 weeks as a warehouse operative and learned about white good retail.

Early University Entrance at Dublin City University **2023 - 2024**

Completed 2 semesters of selected modules from degree programmes at Dublin City University as part of the CTYI Early University Entrance programme.

Computer Science (Semester 1):

Intro to Computer Hardware: 91% (First Class Honours)

Intro to Computer Software: 92% (First Class Honours)

Engineering (Semester 2):

Software Development for Engineers: 81.75% (First Class Honours)

Engineering Mechanics Statics: Incomplete (Final exam missed; No grade calculated)

Institute of Education **2024 - 2026**

Leaving Certificate (2024 – 2026)

Subjects*:*

Higher Level Mathematics
Higher Level English
Higher Level French
Higher Level Applied Mathematics
Higher Level Croatian
Higher Level Computer Science
Higher Level Physics
Higher Level Music
Ordinary Level Irish

Trinity College Dublin **2026 - Present**

BAI Engineering 1st year student

PROJECTS

Sensor based wildfire detection system November 2025 – March 2026

- Designed and built an embedded system to evaluate local wildfire risk.
- Programmed a model to calculate Fire Weather Index, which is used by meteorology agencies to determine wildfire risk.
- Built a flask server to receive API calls from the embedded system, and display data on a webpage

Galaksija Computer Build February – March 2024

- Assembled and tested a functioning Galaksija 2024 Computer from a custom PCB and components (CPU, ROM, RAM, Logic ICs, Keyboard switches).
- Ported certain BASIC games on computer using Galaksija BASIC flavor

Institute of Education Vex Robotics 2024 - 2026

- Member of Vex Robotics engineering team for 24/25 and 25/26 seasons
- Lead engineer for 25/26 season
- Designed and built robots for the VEX V5 competition
- 10th place at Limerick Regional in 24/25 season
- 10th place at National Championships in 25/26 season

Raspberry Pi based Apache web server hosting WordPress website January – March 2023

- Installed and configured Ubuntu Server, PHP, MySQL and WordPress
- Created WordPress website for a local youth club

Lutrellstown CC Smart Garden 2021 - 2024

- Researched existing automated and sensor informed gardening techniques
- Received funding from Amazon to build the project
- Was lead student of project between 2022 and 2024
- Implemented a smart gardening system, which automatically watered plants based on environmental conditions.

EXTRACURRICULARS

Water polo – St. Vincent's Water Polo Club 2018 - Present

- Currently represent club in U19 and Men's Division 2 leagues at national and regional level.
- Won several national junior cups with St. Vincents
- Selected 2 times for the U17 Leinster squad and won Inter-provincial cup as part of the squad.

Music 2014 - Present

- Piano performance: completed RIAM Grade 7 exam, and Leaving Cert Music
- Music theory: completed all RIAM exams up to Grade 8

SKILLS

Programming languages: Python, C, HTML, CSS

Computer software/ frameworks: Microsoft Office, Adobe Photoshop, SolidWorks, KiCad

Systems: Apache Web Server, Linux (Ubuntu), WordPress, basic networking

Languages: English (Native), Serbo-Croatian (Native), French (Intermediate), Irish (Intermediate)