

Kieran Velon

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Profile

Enthusiastic and motivated mechanical engineering student commencing my third year of the Honours Mechanical Engineering degree program at Cork Institute of Technology. Keen interest in the mechanical engineering course particularly the engineering design and applied aspects of the degree program. Recognised as a highly motivated conscientious student with a strong work ethic and excellent academic history. Currently seeking a placement abroad, where I can gain insight into the stress analysis and computer modelling industry and build on my engineering knowledge and experience to date.

Mechanical Engineering (BEng Honours) - Cork Institute of Technology

Academic results

- First Year GPA: 88.20 %
- Second Year GPA: 89.50 %

| Sample of Second Year Modules | Final Grade (%) |
|----------------------------------|-----------------|
| Numerical Methods 2 | 98 |
| Engineering Mathematics 211 | 99 |
| Mechanical Materials (2D) | 88 |
| Thermodynamics (Laws and cycles) | 94 |
| Mechanical Engineering Design | 75 |
| Engineering Maths Methods | 94 |
| Fluid Mechanics | 81 |

College Projects

1. Can Crushing Device (Second Year Semester 2): The machine consisted of an efficient, safe and convenient method of crushing cans for industrial applications while minimising both cost and environmental impact of the design.
2. Cable Stayed Rotating Pedestrian Bridge (First Year Semester 2): A bridge with a 20m span which allows vessels to pass, by encompassing a pivoted design about an offset pillar which uses an electric motor to rotate the bridge when necessary.

Academic Achievements

Recognised as a Faculty Scholar by the Faculty of Engineering & Science, Cork Institute of Technology by simultaneously achieving a First-Class Honours and a first place in my class examinations for second year.

Work Experience

Engineering Support - CPI Technology Ltd (June 2019 – present)

- Performed connector integrity pneumatic pressure testing on single use technology.
- Programmed a straightforward user interface to efficiently manage and automatically display experimental data using VBA Macros and Excel.
- Completed a report detailing the evolution of pressure test procedures implemented during connector integrity testing.
- Received full body garment gowning and sanitation training for ISO 7 and ISO 8 cleanrooms.
- Assisted in the construction of single use GMP production assemblies destined for pharmaceutical applications in an ISO 7 cleanroom.

- Documented pressure tests on single use technology to GDP standards.
- Liaised with stock manager and warehouse manager to maximise efficiency of connector integrity testing.

Shop Assistant – Cork University Hospital (June 2018 – July 2019)

- Operated the till machine and completed till float counts during shift.
- Recorded and checked newspaper and magazine returns.
- Ensured a high level of customer satisfaction is maintained.
- Provided bedbound patients on the hospital wards with newspapers and toiletries during morning trolley run.
- Building rapport with patients ensuring a friendly and convenient service.
- Provided assistance and information to customers and patients where necessary.

Tyndall work experience (February 2015)

- Allocated a position to conduct basic testing on microchip storage systems.
- Exposure to a clean room environment in the development of microchips.
- Shadowed technicians and researchers in the various procedures completed in microchip production.

Penny Dinners (September 2014 - December 2014)

- Experience in working in a restaurant environment during transition year.
- Performed a variety of kitchen duties in the preparation of the meals provided daily by the service.
- Conducted tasks in a demanding and fast paced work environment.

Skills

| | |
|------------------------|---|
| Technical | Experience using Autodesk Inventor, ANSYS, Simulink, Microsoft VBA coding language, LabVIEW, Autodesk AutoCAD, CES materials selector and Microsoft Office. |
| Team management | Delegating tasks and ensuring that team members are working efficiently to best optimise a projects development. |
| Diligent and committed | Hard working and driven to complete tasks to the highest standard. |
| Communication | Effective and precise communicator. |
| Team Participation | Great contributor and strong involvement in team projects. |
| Time keeping | Always punctual. |
| Languages | Fluent in French. |

Interest

- Sports:** Member of Leisure World Bishopstown Gym and enjoy cycling regularly.
- Music:** Playing piano.
- Driving:** Holder of full clean driver’s license.
- Hobby welding:** Basic metal fabrication and welding projects.

References

Dr JP McCarthy
 Lecturer in Mathematics
 Cork Institute of Technology
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 Managing Director
 CPI Technology
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