# Justin Case

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## Education

2019 – to date Maynooth University, Maynooth, Co.Kildare.

**B.Sc. (Honours) Experimental Physics and Chemistry**

*Expected Result: 2.1 Honours*

Third Year: Chemistry and Experimental Physics

Second Year: Chemistry, Experimental Physics, Mathematics

First Year: Chemistry, Experimental Physics, Mathematics, Computer Science

#### Relevant Skills

**Laboratory**

Electronics

* Bench work in digital and analog electronics.
* Circuit board design & production using EAGLE.
* Electronics for instrument control and data acquisition.

Optics

* Extensive hands on work with optical systems incorporating diffractive optics,

image capture elements,

* Electro-optical components,
* Coherent signal detection.

Optical Materials

* Hands-on fabrication of optical thin film devices, including transparent conductive electrode preparation and material deposition under clean room conditions.

#### *Lasers*

#### Experience with HeNe laser, Krypton, Argon, CO2, NdYag, semiconductor, and solid

#### state lasers in visible and near infrared.

#### Experienced in laser design and characterization, including scanning Fabry

#### Perot spectroscopy for laser mode analysis.

**Computer**

Computer Applications

* Extensive experience with spreadsheet and graphical analysis packages,
* Microsoft Office suite (WORD, EXCEL, POWERPOINT),
* data acquisition with LabVIEW,
* instrumentation control with C/Lab VIEW.

Computer Programming

* Java, Computational modelling of physical systems

**Instructional**

* Private tuition to Leaving Cert. Students,
* Lab Demonstrations during Maynooth University Open days (April 2021, November 2022)

**Administration / Organisation**

* Planned activities to ensure that targets and deadlines are successfully met
* Experience multi-tasking and working on own initiative in a variety of settings
* Relevant research prior to commencement of project

**Research**

* Accessed and reviewed archives
* Attempted to source primary materials relating to topic

**Team working**

* Constant team-working to ensure efficient workings of projects
* Liaised with other professions at various stages of project

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##### Vacation Employment

Summer 2022 Three Communications, Citywest Business Park, Dublin 24

**Software Technician**

* + - * Involved in designing and building interfaces to core network elements.
      * Worked with the business team to identify solutions that satisfy a business need
      * Enhanced and tuned existing IT systems to ensure 24/7 availability

##### Part-Time Employment

2021 to date Saints Bar, Glen Royal Hotel, Maynooth, Co. Kildare

(Weekends) **Barman**

* Serve customers in a friendly and efficient manner
* Deal with difficult customers politely but firmly
* Responsible for cashing-up and assist in stock control
* Train in and supervise new staff
* Observe workplace hygiene, occupational health and safety, and security procedures

**Interests and Achievements**

***University:* 3rd Year Experimental Physics Class Representative (2022-2023)**

* Attended Union Council and discussed any issues of concern to the class
* Reported on Union Council to the class
* Acted upon class queries as requested and liaised with relevant personnel

# Member – Astro2, Maynooth University Physics Society (2018 to date)

* Attended Society meetings and events
* Volunteered at Society Stand on Maynooth University Clubs & Societies Day

###### Sports: Player Member/ PR Assistant, Sometown GAA Club (2019 to date)

* Represent club competitively at county level and national level
* Instruct junior members and coach juvenile player camps
* Promote club activities on Club Social Media accounts

***Awards:*****Academic Performance**

* + Maynooth University Entrance Scholarship - based on Leaving Certificate results

**President’s Award – Silver (2019)**

* Presented with this award for personal achievement in the areas of physical recreation, community involvement, personal skill and adventure project

##### Referees

Dr Ellen O’Flynn, Ms Joan Smyth,

**Lecturer, IT Department,**

##### Department of Physics, Three Communications Ltd.,

Maynooth University, Citywest Business Park,

Maynooth, Dublin 24.

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