

# A Day in the Life

Ryan studied for a BSc. in Geospatial Surveying with TU Dublin, Bolton Street as a full time undergraduate, undertaking a six month work placement with Jones Engineering in Leixlip, Co Kildare as an engineer surveyor. He explains more about his degree on the other side of the page.



**Ryan Court, Bsc. Geospatial Surveying Graduate**

*"I first heard about surveying through my father, an engineer, and my grandfather, a land surveyor. I had a keen interest in Geography, Mathematics, and Technical Drawing in secondary school. I believe if you have an interest for the outdoors and technology then this is an ideal course to put on the CAO. No two days are the same, as you are always learning something new, whether that be out in the field collecting data using amazing technology or in the computer labs creating 3D models using state of the art software."*

Ryan was able to use his time in TUD Bolton Street undertaking highly specialised modules in an unique course. He learned to use highly advanced technologies such total stations, laser scanners and drones and even based his final year dissertation on these technologies and developing a pilot study on measuring technologies within the residential real estate market. On the strength of this, he has started his own company specialising in virtual tours for residential and commercial properties across Ireland.

*"My dissertation became my market research for my business venture. I was fortunate to launch a successful company completing major projects for Tu Dublin's Grange Gorman facilities and real estate firms. This course has given me immense opportunity and support. I would recommend it to anyone with an interest in technology, entrepreneurship, environment and doing something meaningful that always keeps you excited."*

# Geospatial Surveying

Geospatial Surveying is a degree broken into three key areas: Measurement, Modelling using GIS and Management.

**Measurement:** A range of technologies such as Total stations, Laser scanners and Drones are used to collect data relating to the earth (spatial data). The data is then processed to create digital maps and 3D models of our landscape for development, monitoring, and planning or even gaming environments.

**Modelling:** Using GIS (Geographical Information Science) and BIM (Building Information Modelling) lets us visualise, question, analyse and interpret data using maps to understand relationships, patterns and trends that enable better decisions to be made about locations. This involves 3D modelling, computer visualisation, spatial analysis in GIS and BIM.

**Management:** Geospatial data deals with the four main land administration systems: Land Value for Taxation, Land Tenure for Ownership of Property, Land Use for Planning, and Land Development for Construction and Conservation. The course teaches specialised case studies in sustainable development goals (SDGs) which are set by European union for all EU countries to follow



*There is no better time to join this industry. If you've an interest in technology and the world around you then this course is for you. No one day is the same, as you are always learning something new whether that be out in the field collecting data using amazing technology or in the computer labs creating 3D models using state of the art software. The facilities Tu Dublin has to offer are world class. A five-minute walk to the Grange Gorman campus and right in the heart of the city centre. You really get an amazing college experience. The opportunities this course offers can change your life and put you in a position you will never regret.*