

# Thomas Nolan

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## Personal Profile

I am passionate about Construction, Architectural Design and Renewable Energies. Six years of study and a term of practical work experience have confirmed Environmental Engineering as the career choice for me. I am currently looking forward to a career centred on my deep interest for the environment, which would offer opportunities to interact with similar minded people.

My reliability, adaptability and approachable nature are assets I would add to the workplace. I have experience in project management and have strong organisational and administrative skills. I enjoy working within a team but am equally comfortable working independently and using my own initiative. I have the ability to perform whilst under pressure meeting tight deadlines. I have experience in research, data collection and analysis.

## Work Experience

### Irishtown Group Water Scheme

June 2010 – Present

Work part time for a rural group water scheme. Duties involve locating and repairing damaged pipes, reading meters regularly to estimate intake and outtake, monitoring chlorine levels and providing water access to new dwellings. Have full knowledge of drinking water requirements and all aspects relating to the efficient running of a GWS.

### JJ Rhatigan & Co. Ltd

January 2008 – September 2008

Worked as a site technician on the completion of a swimming pool and leisure center in Claremorris, Co. Mayo. Undertook the setting out responsibilities ensuring deadlines were met to keep the project timeline on track, supervised site labour and construction works to keep them to the standard required within a major site, maintained site records and documentation.

Worked as a setting out engineer on the completion of the Cairn International Trade Center project in Kiltimagh, Co. Mayo. Achieved excellent results in the setting out of precast concrete walls, in-situ concrete columns and beams and setting levels for decks, precast walls and columns. Reduced the time allocated in the programme for these tasks by 20%. Supervised pouring of concrete ensuring correct consistency through the use of cube testing. Supervised the erection of the steel frame and blockwork.

### MMH Ltd. Hardware

August 2003 – June 2005

Worked on a part-time basis over a period of two years. Duties involved stock taking, ordering of relevant stock from warehouse, arranging stock, displaying sales items, customer assistance and advice, arranging special orders and deliveries, as well as answering telephone enquiries. I was also responsible for my own particular sections of the department and had to ensure they met with the approval of my department store managers.

## Skills

<b>Computer Applications</b>	Highly competent with using Microsoft Office applications such as Word, Excel and PowerPoint.  Extensive experience with using Auto Cad, GIS and Map Info Professional.
<b>Communication</b>	My degree course greatly enhanced my written and verbal communication skills due to the many presentations, assignments, essays and projects required.
<b>Teamwork</b>	I have successfully undertaken various team projects within both academic and non-academic environments.

**Education**

<b>Year</b>	<b>Educational Institution</b>	<b>Course Studied</b>	<b>Certification Received</b>
2010-2011	Galway Mayo Institute of Technology	Masters of Science in Environmental Systems	Honours degree in Environmental Systems
2008-2010	Edinburgh Napier University	Bachelor of Science in Construction and Project Management	Honours degree in Construction and Project Management
2005-2008	Galway Mayo Institute of Technology	Bachelor in Construction Management	Certificate in Construction Management
2000-2005	Dunmore Community School	Secondary School	Leaving Certificate

**Course Work - Thesis (M.Sc. in Environment Systems)****Thesis Title: “An Investigation into the Green Biorefinery Potential of Grass for Biofuel and Other Value Added Product Production in Ireland.”**

The objectives of my thesis were to assess if Green biorefinery could be an alternative use for Irish grasslands. The initial phase of the project was to assess what robust and basic technologies are available to make products from grass or silage in the short-mid-term. This allowed for the development of a Green biorefinery conceptual design. This was then used as an investigative framework to address the data gaps identified as part of a literature review, for the supply side of an Irish Green biorefinery system.

**Project – Hydrology and Hydrogeology**

The primary aim of the project was to determine the best course of action in the case of a contaminated water source. As part of a consultancy team I participated in determining the remedial measures required to decontaminate the water source and make it suitable for human consumption. Initially a survey of the area was undertaken using geographical information system software to identify the cause of contamination. A risk assessment was used to determine the severity of this contaminant and finally recommendations to improve the water quality were made to the group water scheme.

**Project – Environmental Impact Assessment**

An Environmental Assessment was undertaken on a particular section of motorway. A scoping study was carried out to identify the key areas of relevance to the environmental impact statement. These areas were expanded upon and a conclusion on the potential impacts was provided. This ensured that the necessary considerations would be taken into account when constructing the motorway.

**Project – Energy Systems**

The project entitled “The Potential for a Hydrogen Energy Economy” was an analysis of the future prospects of hydrogen as a renewable energy. It discussed the various constraints it must overcome for a hydrogen economy to be realised both nationally and internationally.

**Course Work - Dissertation (B.Sc. in Construction and Project Management)****Dissertation Title: “Precast concrete for the rapid construction of bridges”.**

My hypothesis was “precast is a more promising alternative to cast in place”. To test this I carried out extensive research on all relevant literature concluding with my own interpretation. An analysis of current precast bridges was undertaken in an effort to test their performance, cost and impact on the environment. Case studies as well as interviews and questionnaires were compiled. I gained significant knowledge of the implementation of prefabrication in bridge construction through this project.

### **Achievements**

- First Aid course completed.
- Full clean Irish driver's license.
- Safe Pass Course completed.
- FETAC level 5 Green Certificate Achieved

### **Interests and Hobbies**

- I play for the local GAA football team and recently won the Mayo County Intermediate football championship.
- Played for the Napier University football team and won the GAA British Universities Championship.

**References available on request.**