

# Modestas Jakuska

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## EXPERIENCE

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### Konnekt-able Technologies

Waterford, Ireland

Full Stack Engineer

May 2020 – Present

- Back end Django development.
- Unit testing.

### Odyssey VC

Sallins, Ireland

Application Specialist

Feb 2019 – Apr 2020

- Full stack development for Compliant Cloud customer portal using TypeScript, React and FoalTS.
- Customizing Integrify workflows with JavaScript and SQL.
- Creating unit tests with Jest, a JavaScript testing framework.

### ESB

Cork, Ireland

Intern

Mar 2017 – Aug 2017

- Compiled SLR and Eirgrid reports which provide an overview of Ireland's electric network.
- Automated the process of compiling these reports and introduced improvements with MS Access queries.

## PROJECTS

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### Instruction Test Studio

Dec 2019 - Present

- Instruction Test Studio is a codeless, developer-friendly open source solution for creating automated unit tests. This project aims to be a quality alternative to paid solutions for creating codeless tests.

### Laplace Equation

Jan 2019 – May 2019

- Examined three different numerical methods to solve the Laplace equation which can be used to solve the potential distribution of any closed geometry that is enclosed by a non-conducting boundary.

- Developed Laplace Equation solutions with Python using Jacobian Relaxation, Gauss-Seidel Relaxation (GS), and Successive Over Relaxation (SOR) methods.

### **Easy Cook Microwave**

Jan 2016 – May 2016

- Created a microwave that can be used by people with intellectual and physical disabilities; in particular, this was made at the request of and alongside Dublin's SJOG community.
- Created web application with PHP and Python that lets users upload cooking instructions to the microwave. Microwave circuit was examined and then modified with Raspberry Pi and a switch so that it follows instructions uploaded by the user.
- Microwave was featured on RTE and DIT news. A video demonstration was also created.

## **EDUCATION**

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### **Technological University Dublin**

Kevin St., Dublin

Computer and Communications, incomplete

2016 - 2019

*This programme educates students to an honours level in electrical and electronic engineering and meets the educational standard required for chartered engineering membership of Engineers Ireland.*

### **Technological University Dublin**

Kevin St., Dublin

Electrical and Control Systems, 2.1

2013 - 2016

*This programme educates students for careers in Ireland's electrical power, automation, robotics, pharmaceutical and manufacturing industries. Students will develop the skills necessary to analyse complex electrical and electronic circuits and power systems.*