

Department of Electronic & Computer Engineering

BE/BSc FYP Allocations 2017/18

Surname	Forename	Programme	Supervisor	Project No	Project Title
ALMOGAMSE	MOUSTAFA	E&CE	Dr Karl Rinne	KR 6 (HB2)	High-Efficiency Switching Converter and Control for Photovoltaic Domestic Water Heating Applications
ABRAHAM	ANJALY	E&CE	Dr Colin Fitzpatrick	CFITZ 1	Using IoT for WEEE Compliance Monitoring
AGNEW	PADRAIC	E&CE	Dr Hussain Madhi	AEM 2	Ultrasonic range-finder hat with haptic and speech-based feedback for visually -impaired people.
BURKE	IAN	E&CE	Dr Reiner Dojen	RD HB 1	Using .NET to Develop an Electronic Prescription System
BURKE	KEVIN	E&CE	Dr Sean McGrath/Dr Colin Flanagan	SMcG/CF 2	UL Campus crowd Tracker and Navigation System
CARR	RONAN	E&CE	Dr John Nelson	JN 2	Mobile phone based NFC capabilities for use in assisted living
CARROLL	CIARAN	E&CE	Dr Sean McGrath/Dr Colin Flanagan	SMcG/CF 1	Melanoma (skin Cancer) long Term Monitoring
CHERRY	DAVID	E&CE	Dr Richard Conway	RC HB 1	Sound Title Detection using Audio Triangulation for use with Interface
CHINNOCK	LORCAN JOSEPH	E&CE	Dr Ciaran MacNamee	CMN 1	Arduino 101 based Remote Controlled toy car, with motion, acceleration and video feedback to an Android phone/tablet
COLLINS	MARTIN	E&CE	Dr Colin Fitzpatrick	CFITZ 3	Cloud Surfing for Clean Energy
CONNOLLY	PADRAIG	E&CE	Dr Ciaran MacNamee	CMN 4	Personal GPS Navigator
DADIGAMUWA	LAKSHAN	E&CE	Dr Ciaran MacNamee	CMN HB 2	Autonomous Car
DONNELLY	CONOR	E&CE	Dr Martin Hayes	MH 3	Modification of the EPV Possession Metric for use in Field Sports
EUSTACE	IAN	E&CE	Prof. Daniel Toal/Dr Bob Strunz	DTBS-1	Proton Precession Magnetometer/Gradiometer
FAN	RUI	E&CE	Dr Kevin Murphy	KM 4	Video – MPEG DASH
HANILY	COLIN	E&CE	Dr Thomas Conway	TC HB 1	Electric Vehicle Crowdsourcing Framework
JIAO	YUJIE	E&CE	Dr Martin Hayes	MH 1	Feature extraction from vehicle based cameras

KAUL	YASHWARDHAN	E&CE	Dr Colin Flanagan	CFLAN 2	Machine Translation using Deep Learning Neural Networks
KAVANAGH	THOMAS JAMES	E&CE	Dr Hussain Mahdi	AEM 1	Low-cost Portable Respiratory Monitor
KEARNEY	JAMES RICHARD	E&CE	Dr Sean McGrath	SMcG 5	Anti-theft Bicycle & Tracking System
KUMAR	SIDDHANT	E&CE	Prof. Michael Connelly	MC 1	Arduino based laser diode temperature controller
KURZYNOGA	PIOTR KAMIL	E&CE	Dr Richard Conway	RC 2	Low-power wireless inclinometer
LEWIS	FFION	E&CE	Dr Thomas Newe	TN-SOK 1	An LED Source Simulator for a Clinical Linear Accelerator (Linac)
LONG	AINE	E&CE	Dr Colin Fitzpatrick	CFITZ 2	Upcycling Used Electronic Components
LYNCH	PAUL	E&CE	Dr John Nelson	JN 1	An investigation of Bluetooth 5
MANSONA	CHESTER	E&CE	Dr Ian Grout	IGR 3	Hardware implementation of the Discrete and Fast Fourier transforms using the Spartan-3AN FPGA
MARTIN	STEPHEN	E&CE	Prof. Michael Connelly	MC HB 1	Gate Analysis
MC AULIFFE	IAN MICHAEL	E&CE	Dr Sean McGrath	SMcG 3	Fish monitoring and Tracking system
MC NAMARA	CIAN	E&CE	Dr Karl Rinne	KR 1	Verilog HDL Design and FPGA Implementation of a High Resolution Video Processor with Sprite Extension.
MOLONEY	AARON	E&CE	Dr Ian Grout	IGR HB 1	WiFi based heater control with the ESP-8266 WiFi controller module
MORRIS	JOSH	E&CE	Prof. Daniel Toal/Dr Joseph Coleman/Dr Edin Omerdic	DT/JC/EO 1	UAV Ground station development
NORMOYLE	LIAM	E&CE	Dr Colin Flanagan	CFLAN 1	Python/Cython Just-In-Time Compilation using LLVM
O'DONOVAN	CIARA	E&CE	Dr Ciaran MacNamee	CMN HB 1	Software Peer Review KP (Key Process Indicators)
O'FLANAGAN	ALAN	E&CE	Dr Kevin Murphy	KM 3	IOT Condensation/Rust Monitor
O'HALLORAN	CIAN	E&CE	Dr Karl Rinne	KR 5 (HB 1)	Using an FPGA and Verilog HDL to attain and Interpret Data from Sensors
O'SULLIVAN	CORMAC	E&CE	Dr Martin Hayes	MH 2	Wavefront Algorithm implementation for dynamic maze solution using two Redbots
PEAKE	KIERAN RAYMOND	E&CE	Dr Ian Grout	IGR 4	Low-cost thermal imaging camera based on the MLX90614 Contactless IR Infrared Temperature Sensor
POOLE	JAMES	E&CE	Dr Colin Flanagan	CFLAN 3	Face Recognition using HoG Features and Support Vector Machine Classification

QIU	Jiyu	E&CE	Dr Richard Conway	RC 1	FPGA implementation of reduced Ethash
RYAN	CHRISTOPHER	E&CE	Dr Ian Grout	IGR 1	Programmable LED current driver circuit based on VHDL and the Xilinx Spartan-3AN FPGA
RYAN	DANIEL	E&CE	Dr Karl Rinne	KR 2	Analogue/mixed-signal IC design using the Cadence full-custom IC design tool chain (Cadence Virtuoso, Spectre)
TAYLOR	RICHARD	E&CE	Dr Ciaran MacNamee	CMN 2	Weather Monitor with NodeMCU ESP8266 Breakout Board
TORMEY	BRENDAN	E&CE	Dr Thomas Conway	TC 1	Inductor Characterization Instrument
ZHANG	QICONG	E&CE	Dr Hussain Madhi	AEM 3	Social Media App for Android
Surname	Forename	Programme	Supervisor	Project No	Project Title
BLAKE	LUKE	Electronics	Professor Dan Toal/Dr Gerard Dooley	GD/DT 2	Small Low Cost Mini ROV and Interfaces
GRIFFIN	RYAN	Electronics	Prof. Michael Connelly	MC 3	Strain gauge measurement system
LYNCH	LIAM	Electronics	Dr Martin Hayes	MH 4	Development of IoT App for MV ESB Distribution Poles
MC SWEENEY	SEAMUS	Electronics	Dr Thomas Conway	TC 2	Power Semiconductor Thermal Characterization System
MEEHAN	TOM	Electronics	Dr Thomas Conway	TC 3	EVSE unit with reserve and access control
MURTAGH	ALAN	Electronics	Dr Thomas Newe	TN-3	MESH network demonstrator for Wireless Sensor Networks
REIDY	DANIEL	Electronics	Prof. Elfed Lewis	EL 1	An LED Based Optical Fibre Sensor Dynamic Response Simulator for a Clinical Linear Accelerator (Linac)
TARKOJEV	ALEKSANDR	Electronics	Dr Colin Fitzpatrick	CFITZ 4	Develop a Tool to Estimate the Environmental Impact of Electronic Products
USMAN	ALEXANDER	Electronics	Dr Kevin Murphy	KM 1	OpenFlow / Software Defined Networking
Surname	Forename	Programme	Supervisor	Project No	Project Title
ALBAY	LINA	MCS	Dr Kevin Murphy	KM 2	Network security
AUCHINCLOSS	EMMA	MCS	Dr Thomas Newe	TN-2	Simulation Tools suitable for the testing of WSN/IoT Routing Protocols
DOWNEY	STEPHEN	MCS	Dr Thomas Newe	TN HB 2	A Demonstration, Explanation and possible Remediation to the Top 10 most popular Web Application Vulnerabilities
MC INERNEY	LIAM	MCS	Dr John Nelson	JN HB 1	Android Pill Reminder for the Elderly with Remote Monitoring
O'KEEFFE	BARTHOLOMEW	MCS	Dr Thomas Newe	TN-1	Inexpensive Radio Frequency Spectrum Analyser
O'NEILL	MARK	MCS	Dr Sean McGrath	SMcG 4	Classroom Attendance & Tracking systems

O'REILLY

CIAN

MCS

Dr Thomas Newe

TN HB 1

Investigation and Simulation of Attack Vectors