SUPPORTS

Core “Manufacturing” Research Talent

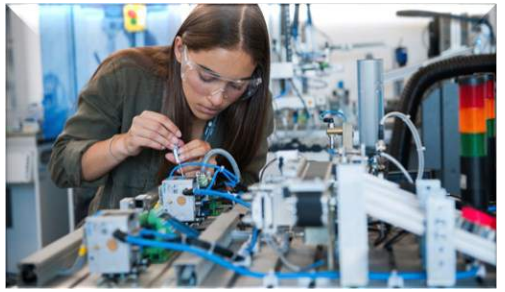
Chair in Digital Engineering

- HEA Senior Academic Leadership Initiative
- Support improved gender balance at senior academic levels
- 1 of only 10 funded nationally in 2022
- Based on Digital engineering, Mechatronics and AI
- Recruiting currently

Chair in Advanced Manufacturing

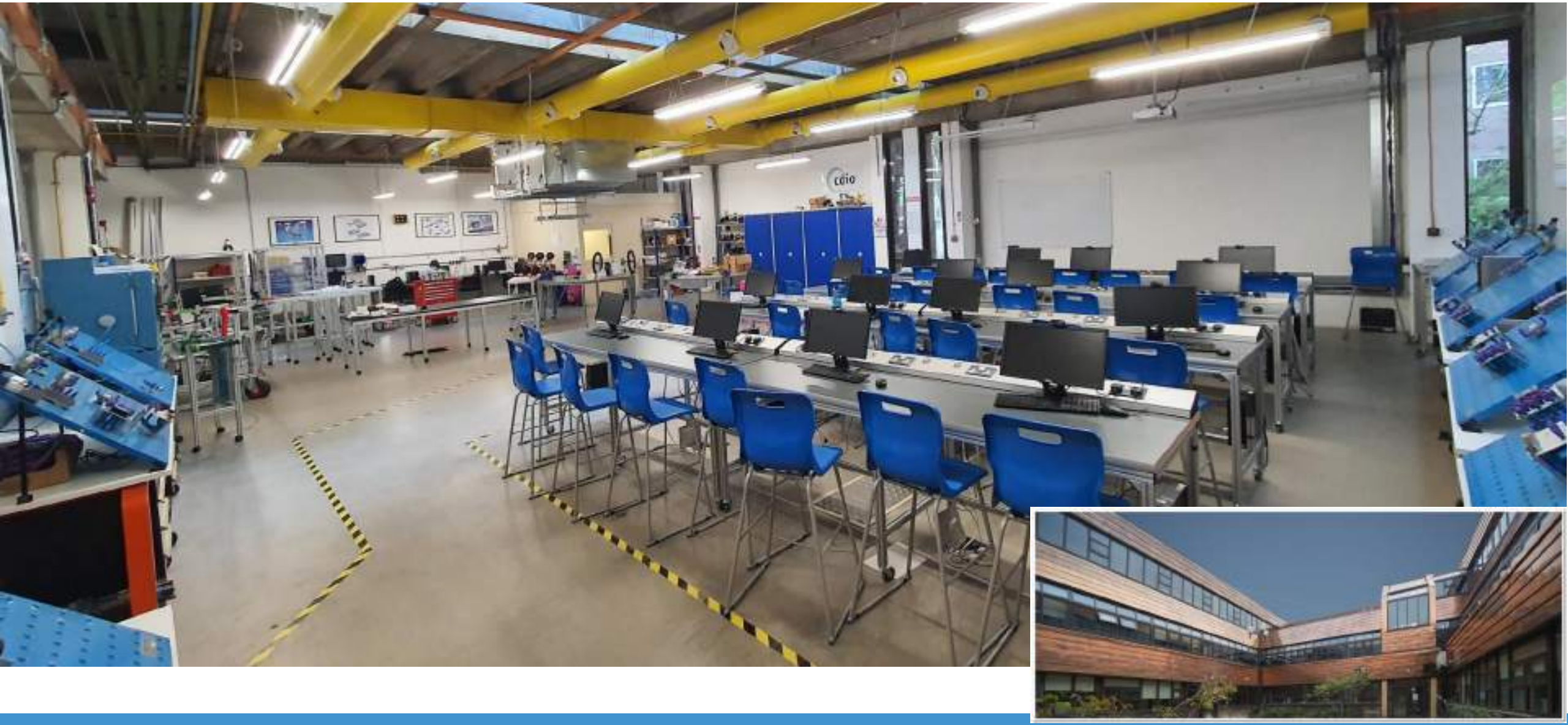
- Chair in Smart Manufacturing funded through UL Bernal Project
- Competition Opening in 2023
- Strong drive to attract female and male applicants

2 X Lectureships in Mechatronics



- 2 X Lectureships in Mechatronics
- Recruiting early 2023

MEng Mechatronics Labs, Schrodinger building, UL



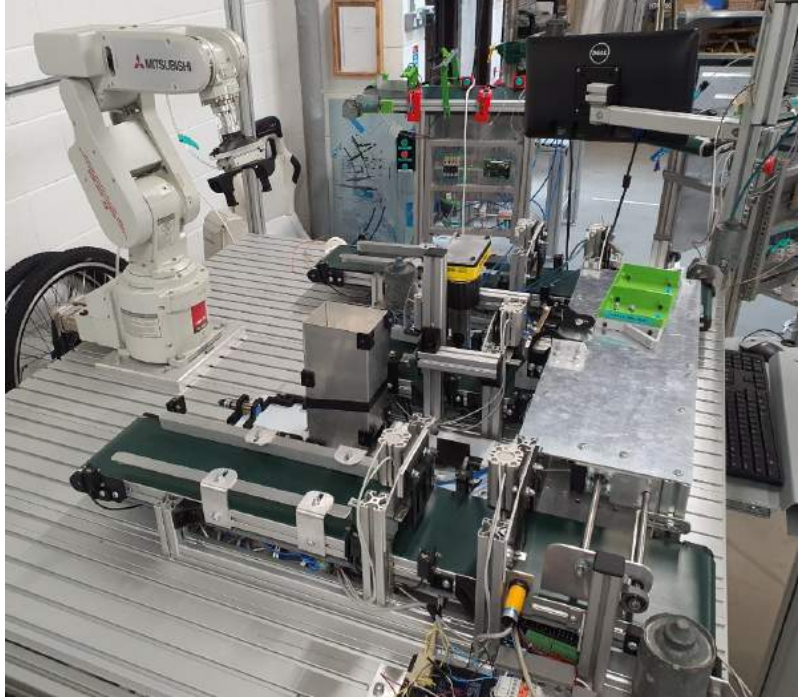
UL@Work Mechatronics Labs, IBC Block, UL (Under Construction)

Confirm Centre - Industry 4.0 Research Labs, UL Digital District

J&J Industry embedded

S&E Faculty Capital Equipment funding

MEng in Mechatronics



- Industry Experts closely involved in delivery of course
- State of the Art course
- Dedicated Lab with industry standard hardware and software modelling Industry 4.0 manufacturing systems
- Practical student work dealing with real life situations and issues
- Broad Range of knowledge and skills

UL@Work

Industry co-Designed Micro Credentials and Professional Diplomas can be stacked to realise an accredited Masters in Digital Futures

UNIVERSITY OF LIMERICK OLLSCOIL LUIMNIGH | UL@Work

A Trans-National Smart Manufacturing Education Hub

General Information

Erasmus Plus KA203 Grant

2020-1-UK01-KA203-079283

Industry Consultations & Stakeholders

Confirm
Smart Manufacturing

A World Leading SFI Research Centre

Science Foundation Ireland SFI For what's next

Thank You

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HOST INSTITUTION

UNIVERSITY OF LIMERICK
OLLSCOIL LUIMNIGH

PARTNER INSTITUTIONS

Tyndall National Institute
UCC University College Cork, Ireland
Maynooth University
Ollscoil na Gaillimhe University of Galway
MTU Ollscoil Teicneolaíochta na Mumhan Munster Technological University
TUS Midlands Midwest

Mechatronics MEng @UL

Dr Eoin Hinchy
Eoin.Hinchy@ul.ie
Lecturer in Digital Manufacturing and Automation
Course Director PDip & MEng Equipment Systems Engineering

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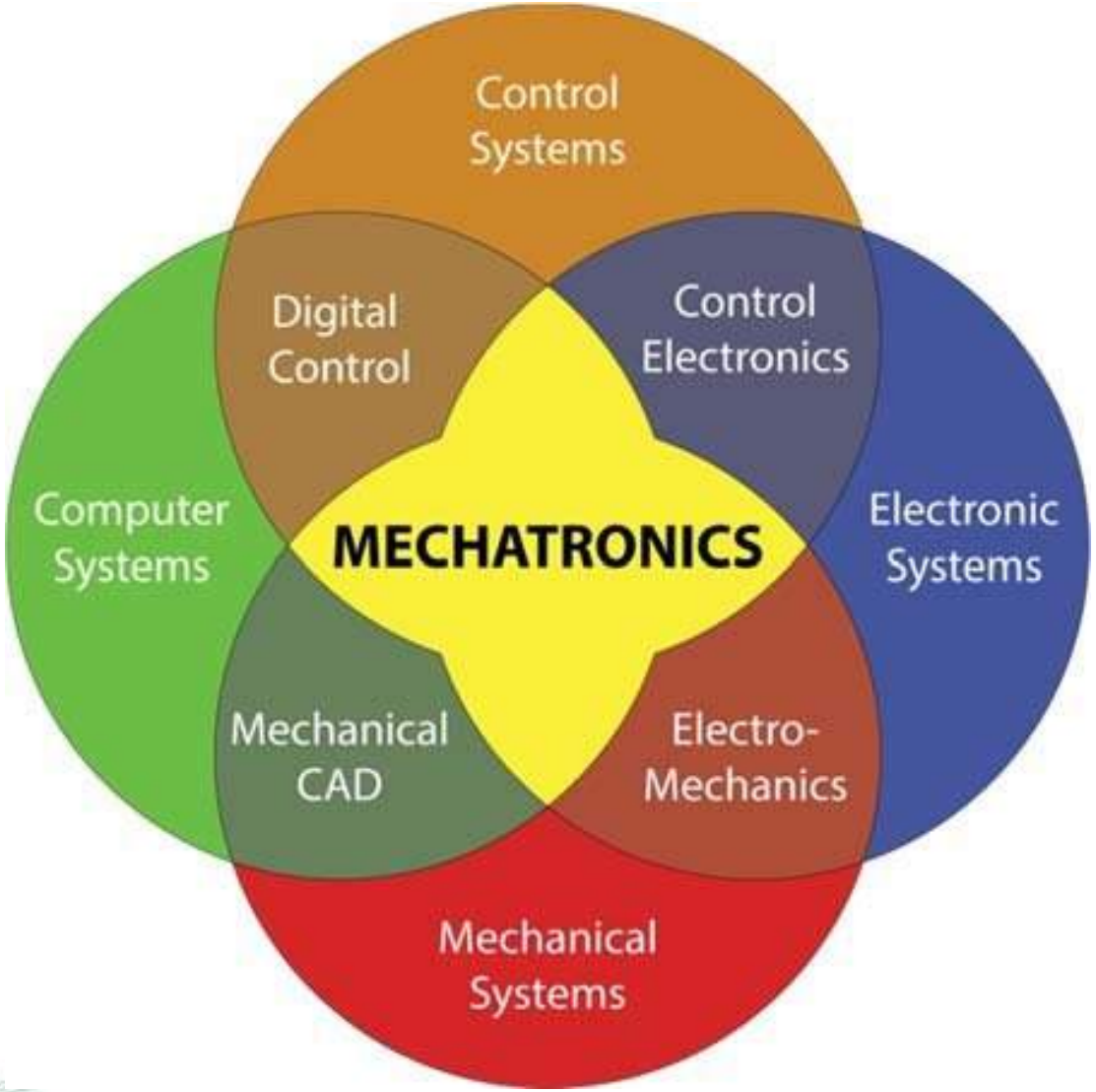
MEng in Mechatronics



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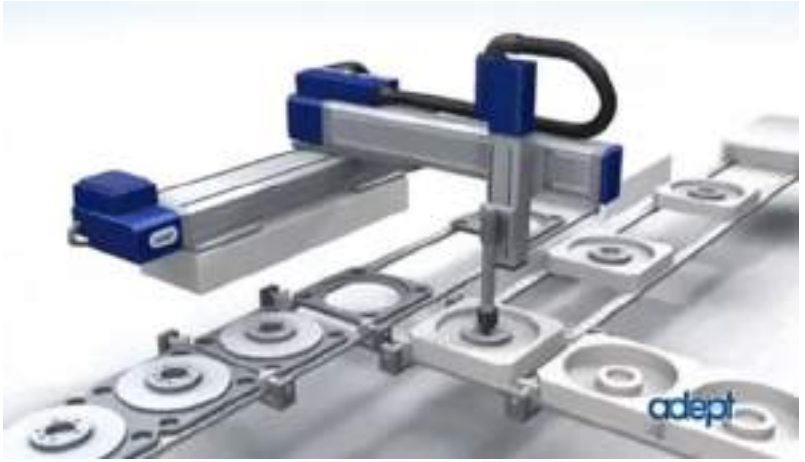
gradireland
Higher Education Awards 2018
Best New Postgraduate Course
WINNER

ENGINEERS IRELAND

THE TIMES THE SUNDAY TIMES
GOOD UNIVERSITY GUIDE 2019
IRISH UNIVERSITY OF THE YEAR

MEng in Mechatronics

- Taught Programme over three consecutive semesters
- 90 ECTS
- Designed for Industry 4.0
- Global / Multicultural management part of the core study
- Input from industry professionals on course design and delivery
- Core and Options
  - Software
  - Hardware



MEng in Mechatronics

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Johnson&Johnson

SL CONTROLS
THINKING AHEAD

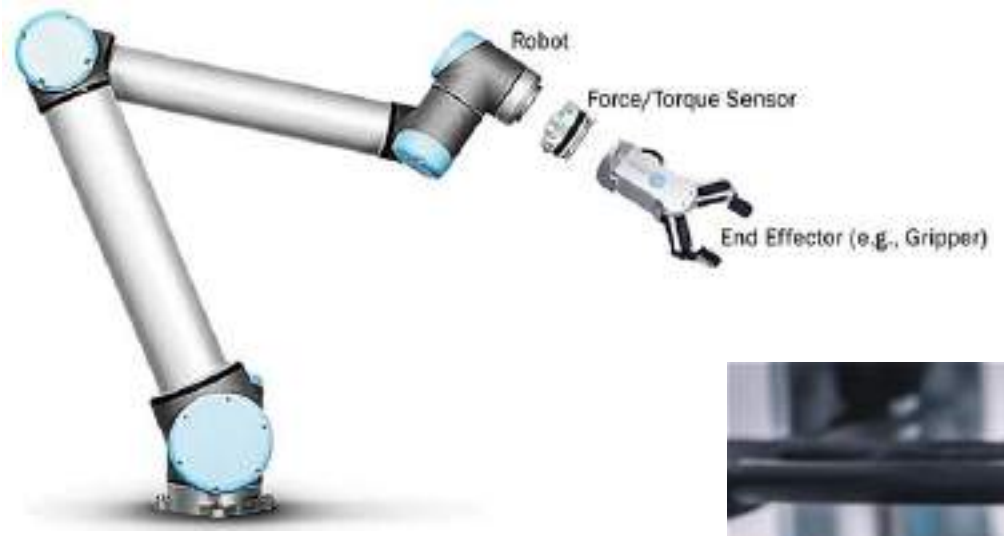
Confirm
Smart Manufacturing

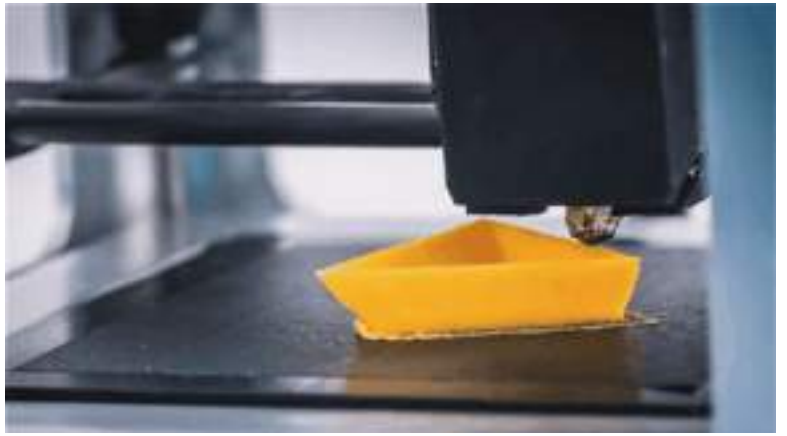
MEng in Mechatronics

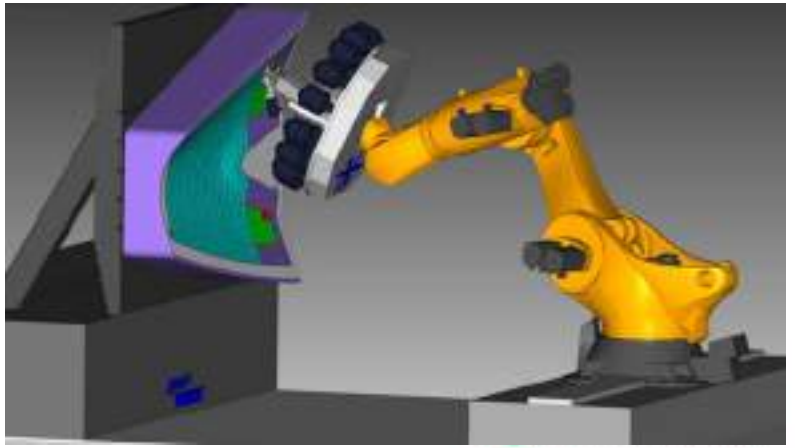
	Autumn	Spring	Summer
Core	Low Cost Automation Systems	Mechatronics Project 1	Mechatronics Project 2
	Automated System Design	Digital Control	
	Project Management in Practice	Global Business Strategy	
		Machine Vision	
Path A	**Automation**	**Automation**	
	Advanced and Emerging Manufacturing Technology	3D CAD Modelling and Machine Design	
	Automation and Control	System Integration	
Path B	**Information Technology**	**Information Technology**	
	Computer Networks 1	Web-Based Applications	
	C++ Programming	Real-Time Systems	

Topics Covered

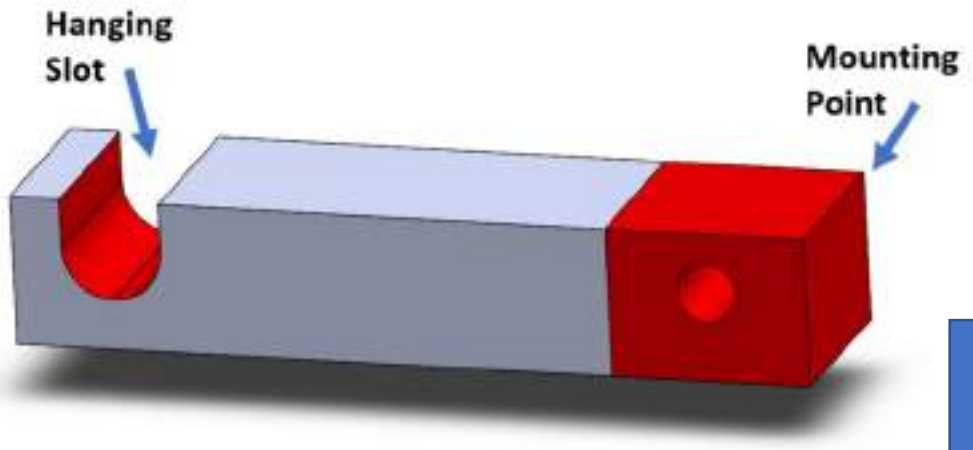
- 3D CAD & 3D Printing
- Smart Manufacturing
- PLC Programming
- Arduinos
- Sensors
- Motors
- Pneumatics
- Control Systems
- Conveyors
- Robots / Cobots
- ISA88, ISA95



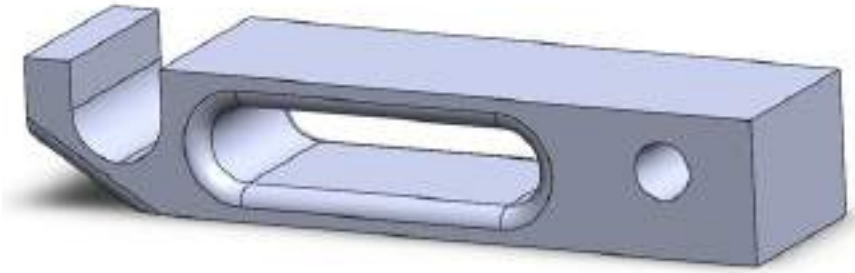


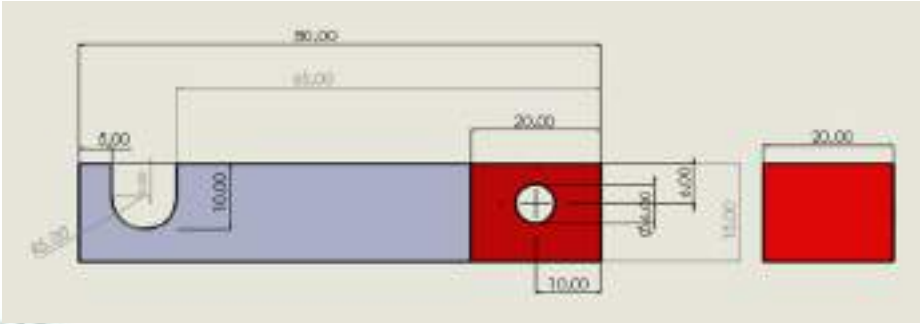


DM6021 Advanced and Emerging Manufacturing Technology



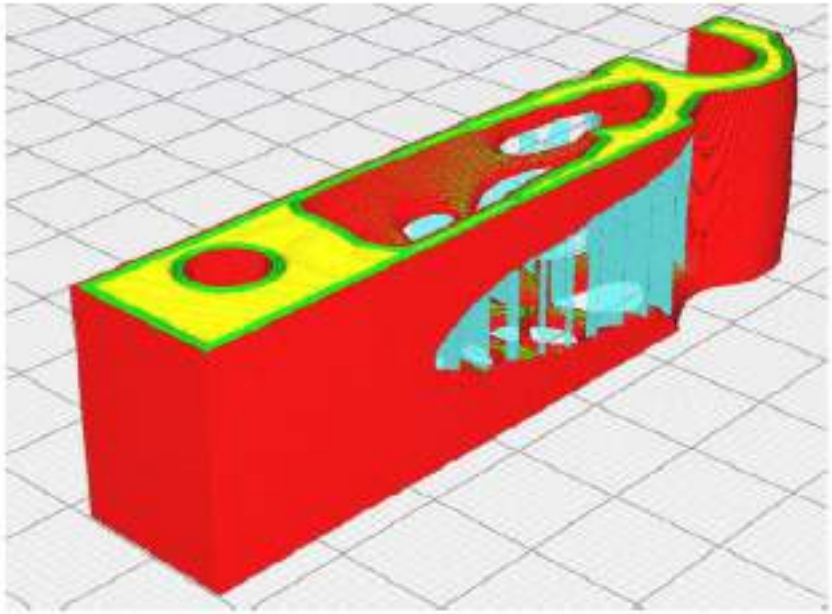
3D CAD &
3D Print





Test to failure

DM6021 Advanced and Emerging Manufacturing Technology



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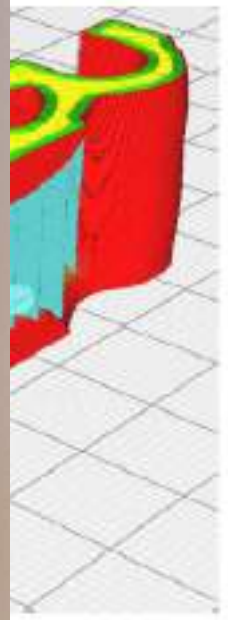
DM6021 Advanced and Emerging Manufacturing Technology



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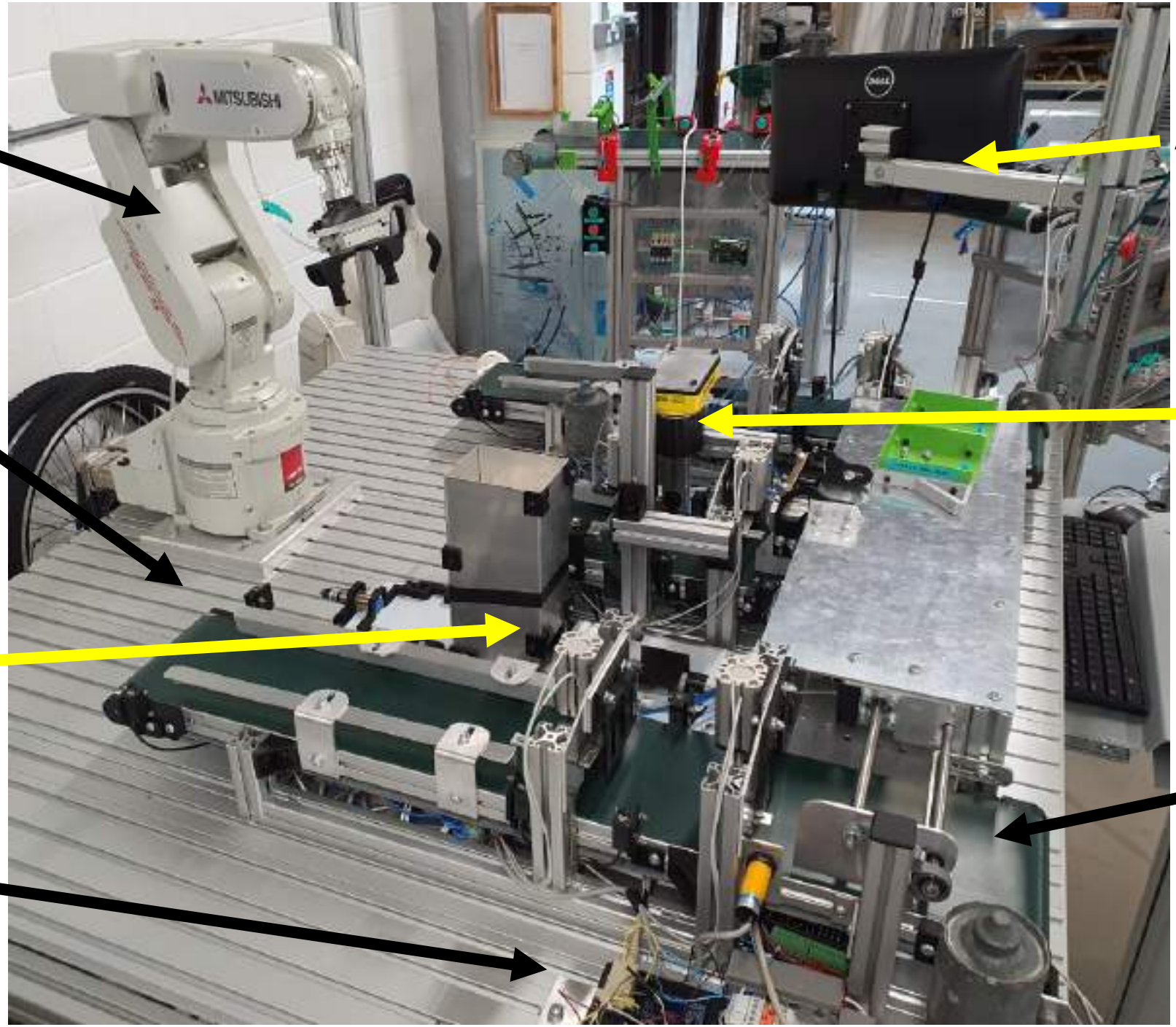
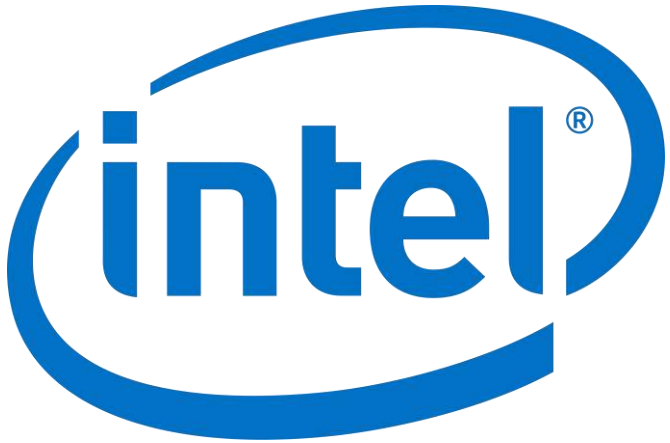
Mechatronics Lab Space


Robot Programming
PLC Programming
Pneumatics
Arduino Programming
AB Factorytalk HMI Programming
Cognex Machine Vision
Communication between controllers

FIRE POINT

KUKA
KUKA

2022 Graduate profiles