



Hamid Khayyam

Senior lecturer

School of Engineering, RMIT University, Australia

Phone: +613-9925-4630 Email: hamid.khayyam@rmit.edu.au

<https://www.rmit.edu.au/contact/staff-contacts/academic-staff/k/khayyam-dr-hamid>

Research Theme

Aerospace and Transportation Materials and Manufacturing

Research Areas

- Modelling, Control and Optimization
- Machine Learning (Big and Limited Data)
- Data Analysis
- Adaptive Intelligent Systems
- Autonomous Vehicles and Robots

Research Facilities/Tools

- GPU Center for Computer Vision
- Simulation – Virtual design, Optimisation
- Industrial Wind Tunnel
- Flight Simulator Laboratory
- Human-Vehicle Interaction
- Engine and Alternative Fuels
- Hydrogen Engine
- Advanced Manufacturing Precinct (AMP) including more than 100 Facilities.

RMIT AMP Additive manufacturing capability

Polymer

FDM – Fortus 900mc, Uprint, 10 Makerbot, 10 Zortrax, Markforge

SLA – 3D Systems Projet 7000, DLP systems

MJ – Polyjet J750, Connex 350

Metal

SLM – SLM Solutions 500HL, 2x250HL, 125 HL, TRUMPF 1000

LMD – TRUMPF TruLaser 7020

Supporting

CNC – 3 & 5 Axis machining centres

Metrology – 3D scanning, CMM, CT

Simulation – Virtual design, Optimisation

Mechanical Testing – Extensive capabilities



Implementing I4.0 on Festo Factory



AR on Smartphone/Hololens



Festo Factory System with PLC's



ThingWorx: Read, log, process, visualize data.

ThingWorx Studio: Augmented Reality.

ThingWorx Industrial Connectivity (Kepware)

Local network



Computer at AMP

Sensor Data & Commands

