

## Research Group Profile

### Engineering Design Research Group (EDRG)



## NICHE AREA

Engineering Design Research Group (EDRG) focuses on expanding and understanding the design process and put into a practical way to facilitate the creation of new products and technologies as well as emphasizing design optimization and analyses.

- Engineering Design and creative design engineering
- Implant & Prosthetic Design
- Rehabilitation Engineering
- Computer Aided Design (CAD) Applications
- Aircraft Dynamics and control
- Finite Element Analysis
- Reliability Engineering
- Probabilistic Design
- Bio-Mechanics and Bio-Tribology
- Virtual Reality Applications in Engineering
- Vehicle dynamics

## MEET OUR TEAM

### RESEARCH GROUP LEADER

Dr. Amir Putra Bin Md Saad

### RESEARCH GROUP MEMBER

Assoc. Prof Dr. Mohamad Kasim  
Bin Abdul Jalil

### RESEARCH GROUP MEMBER

Assoc. Prof Dr. Muhamad Noor  
Bin Harun

### RESEARCH GROUP MEMBER

Dr. Mohd Foad Bin Abdul Hamid

### RESEARCH GROUP MEMBER

Dr. Jamaludin B Hj Mohd Taib

### RESEARCH GROUP MEMBER

Dr. Nor Fasiha Binti Mohd Yusof

### RESEARCH GROUP MEMBER

Dr. Ahmad Humaizi Bin Rozaini

### RESEARCH GROUP MEMBER

Mr. Khairul Anwar Bin Hanafiah

### RESEARCH GROUP MEMBER

Dr. Muhamad Fauzi Bin Abd Rased

### RESEARCH GROUP MEMBER

Dr. Muhammad Asyraf  
Bin Muhammad Rizal

### RESEARCH GROUP MEMBER

Mr. Khairul Anwar Bin Hanafiah

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## PROJECTS HIGHLIGHT

Reliability And Safety  
Engineering And Technology  
For Large Maritime Engineering  
Systems (RESET) – EU Grant

Integration Of  
Design Process In Tvet

Porous Structure  
Architecture For Bone Scaffold  
Applications

Air Traffic Systems – Big Data And  
Software Development

Cognitive Methods In Concept  
Generation Principles Towards  
Creative Ideation Process.



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## ACTIVITIES

### SERVICES & FACILITIES

- 3D Design & Modelling
- 3D Printing
- Design Process & Methodology
- Product Modelling and Visualization
- Reliability, Availability and Maintainability (RAM)
- Engineering Optimization

- Conduct workshops on innovative and systematic approach to solve design problems.

- Simulate biodegradable material for engineering design applications.

- Conduct workshops on innovative and systematic approach to solve design problems

### SERVICES & CONSULTANCIES

