

# Mechanical Design of CubeSats

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 Cranfield, Bedfordshire, UK

 MSc Thesis Project

 **MT2022T001**

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Start Date: February 2022

## About us

Space Resources Laboratory is a space subsystem provider with focus on the small satellite industry. Our products include CubeSat platforms, CubeSat deployers, Micro-propulsion systems etc. Our aim is to exploit the small satellite industry and make space more accessible to everyone.

## Project Description

We are looking for a marketing individual currently pursuing master's in Engineering at a UK based University. We are currently working on the design for standard CubeSat platforms which can be sold commercially-off-the-shelf (COTS). Ideally you will be pursuing a degree in Mechanical Engineering, Aerospace Engineering, Propulsion Engineering, Automobile Engineering, or any other relevant field for this role.

## Responsibilities

- Study spacecraft design procedure
- Design and model CubeSat platforms using a CAD software (Ideally Siemens NX)
- Optimise the design and design procedure
- Produce drawings of the models
- Prepare technical documents and presentations

## Essential Skills

- Proficiency in 3D modelling CAD packages (Ideally Siemens NX, other software may be considered, and training will be provided to use Siemens NX)
- Proficiency in producing drawings for manufacturing
- Basic understanding of FEA for satellite structures
- Ability to work on short deadlines

## Optional Skills

- Ability to perform detailed FEA on structures is appreciated but not essential
- Knowledge of Animation packages like Blender, Cinema4D and 3DSMAX