UNIVERSITI TEKNOLOGI MARA

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| COURSE NAME | TECHNOLOGY ENTREPRENEURSHIP |
| COURSE CODE | ENT600 |
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# PROJECT REPORT/ BLUEPRINT

# DRONE X-RAY


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**HS242 Bachelor in Medical Imaging**

***Faculty of Health Sciences***

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## Company's Logo

RadTech Sdn.Bhd.

## Product Label/ Product Name

## Product Trademark

# CHAPTER 1

## 1.0 PRODUCT DESCRIPTION

### 1.1 Introduction

X- Ray examinations are widely used in health sectors as a tool to help doctors to diagnose a disease. Due to the importance of x- ray examination and high demand towards the patients, x-ray machine should be flexible to ease the radiographer to perform the best radiograph. The current mobile x-ray machine is heavy and bulky to handle and sometimes can injure the radiographer due to non-ergonomic posture when handling the x-ray machine. This product is suitable in preventing radiographers exposed to possible injury and unsafe environment.

### 1.2 Purpose of Development

- To reduce the possible injuries among radiographers due to handling a heavy and bulky machine which can cause non-ergonomic posture while handling a mobile x-ray.
- To avoid possible cross-infection between radiographers and high risk patients such as mers-cov, Tuberculosis, HIV and many more.
- Space saving due to compact size of machine.
- To keep a safe distance between radiographers and high risk / hazardous patients.

### 1.3 Product Concept

- First mini x-ray with flying capability which is based on drone concept.
- The product is operated using a remote control.
- Directly expose the radiation using smartphone apps.
- Equipped with high resolution camera.