



اَوْنِيُوْرَسِيْتِي تِيْكُوْلُوْمِي مَارَا  
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**ENT600 TECHNOLOGY ENTREPRENEURSHIP**

**BLUEPRINT : GARMENT DRYER**

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## 1.0 Problem Statement

Malaysia is a country where the weather is a bit or have a major different from western country. In Malaysia there is almost no seasonal changes in climate. The most cool is the time from November to January when the temperature drops to 26°C. However, the climate of Malaysia is different and depending on which region and states. Rainy season lasts from October to March. The rainy season is celebrated torrential rains continuing for two or three hours, they are usually in the afternoon. In mountainous areas, the rains are often because the high peaks are constantly cloudy. In general, rainfall in Malaysia is about 2000mm per year, in the mountains reaches 5000mm. However, clothes will still be wet even there is no rain, because throughout the year the humidity in Malaysia is 75%. It is a problem to dry clothes around October to March.

While time spent at college is a fond memory and a happy experience for most, the student life is not without its rough patches. Everyone's situation is unique but there are a few problems that almost all college students deal with at least once during their college stays. Most of student have problem managing their time so sometimes when they need to wash their clothes that they desperately need to wear on some occasion and the weather are not really on their side and they have to air dry in the room. Air dry in the room cannot guarantee that their cloth are dry enough. Sometimes the cloth are still be damp. Even if it dries off the cloth might have musty smell. Going to an occasion with musty smell might lower one's self confidence. Aside from drying cloth this product can also be use in drying shoes. Most shoes are not made to be waterproof, when walking in the rain shoes will get wet and it takes time to dry under the scorching sun. It would be a major problem if it is already evening and student need to wear the same shoes for tomorrow.

Whenever purchasing cloth dryer, it is extremely important to make sure to have the space for the machine. If not, it would take expansive room renovations. Measuring space carefully and understanding the clearance space such machines need is key to avoiding these extra expenses. Having correct amount of space for the dryer machine not only means that it will fit into the room, but it will be able to function effectively and safely. The average width of cloth dryer is between 25-38 inches deep. On top of physical space a dryer needs additional space called clearance. It is recommended that there is at least one inch of

space around a washer or dryer to allow a proper air circulation. This space also helps in minimizing noise transfer. Alongside the clearance needed to safely install a dryer, it is important that the machine is can be comfortably access. Similarly, the front machine door need to be fully open so it would take a lot of space and very inconvenient to student, traveler or anyone who live in small spaces.

## 1.1 Objectives

The main objective of this product is **to make drying easier and quick**. For someone who schedule is pack, have no time to check the weather forecast this product would be suitable for them. It really does not matter whether it is going to be rainy or cold day. When a portable garment dryer is all they need, cloth and shoes will be warm and dry all year round. Air-drying is often affected by wet weather or the monsoon season so it would take couple more days to dry the laundry. Having clothes dried on a pole or linear under the sun also exposes them to dust particles, smog and odours. Sun exposures may help in disinfecting laundry, but the ultraviolet rays may cause the colours of the clothes to fade. So with this portable garment dryer people can eliminate the need to rely on good weather and speed up the drying process for crisp, fresh smelling laundry. It would be the best time to say goodbye to long waiting times, colour fade and ordours, and hello to wearing favorite ensemble whenever you want. In addition, this portable garment dryer will dry cloth thoroughly. Just dried clothes are easier to iron, this would make ironing so much easier because it have been designed so as to prevent creasing.

The current population in Malaysia is 32,294,204 as of April, 2020 according to worldometer elaboration of the latest United Nations Data. A person working in Malaysia typically earns around RM 7, 870 per month. Salaries range from RM 1, 070 (lowest range) to RM 34, 900 (highest range average, actual maximum salary is higher). 25% of Malaysian earns RM 3, 950 or less and 50% earn RM7, 710 or less this salary is including their housing, transport and other benefits. Average price for dryer machine varies from RM1, 934 to RM 3, 789. To earn a dryer machine is a luxury that not everyone could have. At this point, customer would rather claim dryer is not what they need but what they want. This portable garment dryer would change their perspective into owning one and change

their thinking to how dryer would be their needs and not wants. **To make drying affordable and available to all customer** because this product dries clothes in much cheaper way than buying thousands Malaysian ringgit of a dryer. Dryer machine also consume most of the house energy and paying the electric bill was already a burden for most household.

A woman travels to Italy wore her t-shirt frontward, backward, inside-out frontward, and inside-out backward, all to delay the laundry day. It does not have to be that extremes to have something presentable to wear. Most of Malaysian likes to travel and most of Malaysian cannot get rid of the fact that they will have to wash their clothes after every used. This product aim **to provide a portable dryer for travelers**. When traveling it would cost a lot to wash two or three pieces of clothing with launderette. In Europe to wash and dry and average—size load at launderette would cost about \$10-15 that is around RM47 to RM70. It is wiser to hand wash the cloth in their hotel room. After hand washing the cloth comes a new problem to dry them. This is where portable garment dryer are very useful, because after you hand wash your cloth it would be unsightly to air dry them by hanging your cloths out the window at a hotel or letting them dry in an air-conditioning room. The hoteliers might be very angry and will look at you like you owe them money.

Besides that, having clothes washed is half the process of getting the laundry done. From hauling laundry bags to washing and the process of drying the wet clothes on a pole or liner that can take a day or more. With portable garment dryer clothes could be dry faster and save some precious time. Besides from cloth, shoe are most difficult to dry. Shoe cannot be dry in a dryer machine because it would destroy the shoe. This portable garment dryer is design and can be transform to also dry shoes. The design is **to make this product fully efficient in many multitask way**. Wearing dry shoe daily could prevent foot fungus. When feet are exposed to prolonged moisture, there is a potential foot fungus to develop. Foot fungus thrives in places that are warm, dark and moist, which is exactly what the environment inside of a wet shoe is.

As a whole, this product is also design **to save space**. Space is no longer a constraint to someone who have small living home. If limited space at home is an issues, this compact