

**AUTOMATED NATA DE COCO CUTTING MACHINE
(CUTTING AND TRANSFER METHOD)**

By

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STATEMENT BY THE AUTHOR

I hereby declare that this submission is my own work and to the best of my knowledge, it contains no material previously published or written by another person, nor material which to a substantial extent has been accepted for the award of any other degree or diploma at any educational institution, except where due acknowledgement is made in the thesis.

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ABSTRACT

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The purpose of this research is to design, select, and build the most reliable machine of *nata de coco* cutting machine, without neglecting the safety of the machine and the food safety concerns. *Nata de coco* is coconut water fermented using *Acetobacter xylinum* which has a chewy texture and translucent appearance, since *nata de coco* contains microbial cellulose, the *nata de coco* turns into a certain fibers in the inside, nevertheless the *nata de coco* is chewy in the outside, which make hard to be cut. PT Wong Coco, as one of the main *nata de coco* producer in Indonesia, PT Wong Coco has one problem with their Japanese customer, where Japanese are well known perfectionist, and the problem is the cubicness of the *nata de coco*. Hence, a new method of *nata de coco* cutting machine has to be developed in order to fulfil the Japanese customer's demands, where the end result has to be perfectly cube.

Keywords: design, nata de coco, PT Wong Coco, cubic, method



DEDICATION

I dedicate this work for PT Wong Coco as the project funder and Swiss German University.



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