

# ***DESIGN AND DEVELOPMENT OF AN AUTOMATIC COFFE FRUIT SORTING MACHINE USING AUTODESK SOFTWARE***

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## ***ABSTRACT***

*Indonesia is one of the largest coffee producers with a production of 11.95 million coffee sacks. Coffee farmers play a significant role in this high production volume. However, coffee producers often complain about the coffee fruit sorting process requiring a large workforce. This need for numerous workers in the sorting process significantly strains financial resources.*

*Addressing this issue, this research aims to design an automatic coffee fruit sorting machine using Autodesk software. The use of Autodesk software facilitates the design process of the machine to be developed. Data collection was conducted through interviews, questionnaires, and observations.*

*The feasibility analysis results, obtained through questionnaire surveys, indicated a total percentage of 85%. Based on the validation criteria percentage, it is stated that if the percentage reaches 85%, then the design of the coffee fruit sorting machine using Autodesk software is considered fairly good. It is hoped that this research can reduce labor costs.*

*Keywords : Coffee, Sorting, Design, Autodesk*