

ABSTRACT

Thesis Title : **DESIGN OF SMART SERVICE SYSTEM
BASED ON ARDUINO MEGA 2560
BARBERSHOP**

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Study Program : **Computer Engineering**

Degree Granted : **Strata 1 (S1)**

Advisors : **1. Emil Nafan S.Kom, M.Kom.
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Currently the barbershop business has grown rapidly and is growing mushrooming in Indonesia, especially in Padang. The increasing number of barbershops nowadays, the availability of services regarding barbershop services is very much needed. This is what makes it easier for customers to get services regarding barbershops that are in accordance with the wishes of customers. The purpose of the research is to build a smart barbershop service system to make it easier for customers to get the desired barbershop service. The method used in this study is the prototype method. This research produces a smart system-based barbershop service system that can make it easier for barbershop customers to choose a barbershop according to their wishes, customer tastes, and still meet the customer's appearance needs.

Keyword : *Arduino Mega 2560, RFID, Buzzer, DFPlayer, LED, Button, Speaker, LCD20x4.*

ABSTRAK

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Saat ini usaha barbershop telah berkembang pesat dan tumbuh menjamur di Indonesia khususnya di Padang. Semakin banyaknya barbershop saat ini maka sangat dibutuhkan pula ketersediaan pelayanan mengenai jasa barbershop. Hal ini lah yang memudahkan pelanggan untuk mendapatkan pelayanan mengenai barbershop yang sesuai dengan keinginan pelanggan. Tujuan dari penelitian untuk membangun smart sistem jasa barbershop guna mempermudah pelanggan dalam pelayanan barbershop yang di inginkan. Metode yang digunakan pada penelitian ini adalah metode prototype. Penelitian ini menghasilkan sebuah sistem pelayanan barbershop berbasis smart sistem yang dapat memudahkan pelanggan barbershop dalam memilih barbershop sesuai keinginan, selera pelanggan, dan tetap memenuhi kebutuhan penampilan pelanggan.

Kata Kunci : *Arduino Mega 2560, RFID, Buzzer, DFPlayer, LED, Button, Speaker, LCD20x4.*