

DIGITAL IC TESTER

GROUP 13



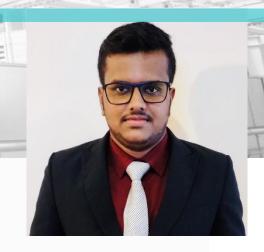
GROUP MEMBERS



E.M. DEWMINA E/18/071



S.T.C. DHARMASIRI E/18/078



W.M.V.S. HERATH E/18/134

Problem Statement



 Efficiently identifying and resolving issues within integrated circuits (ICs) during circuit work requires a user-friendly and cost-effective solution to streamline testing and confidently explore IC functionality with ease and accuracy.

Introducing...

DIGITAL IC TESTER



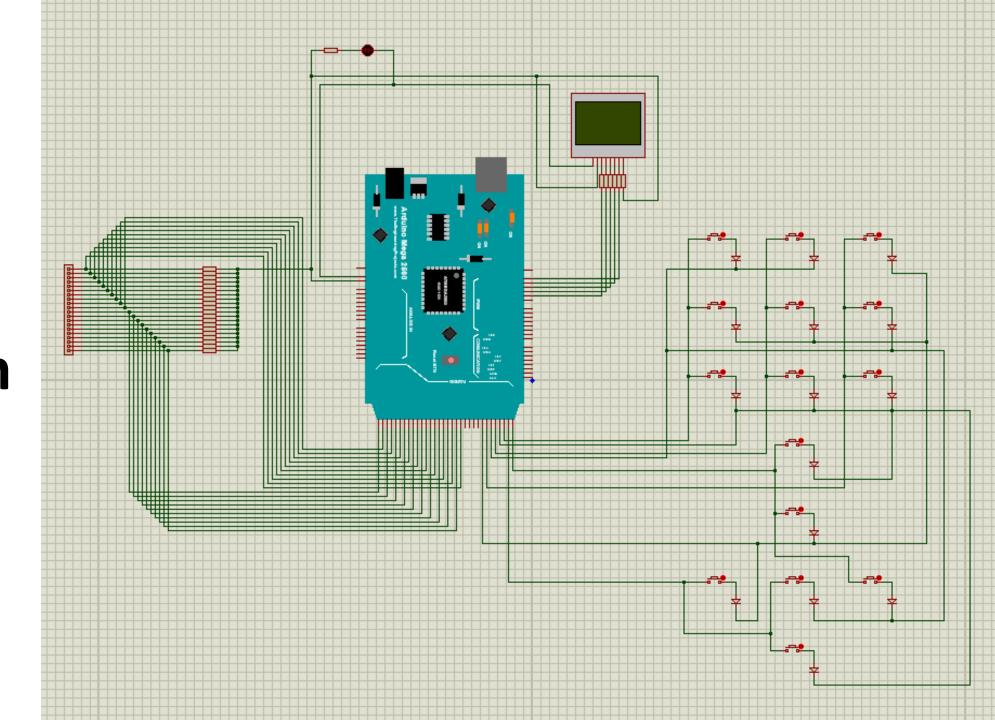
Key Features:

- Low cost
- Accurate results
- Portability
- User friendly
- Ability to upgrade firmware

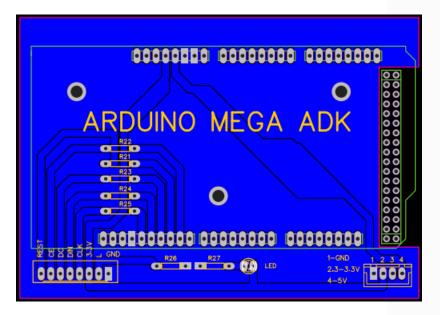
Start Initialize the LCD and key pad Display WELCOME screen Auto Yes search Input the no. of pins Input the number Provides all possible inputs to the IC and takes back its response Yes included Response matches Display "IC Provide necessary an IC? inputs to the IC included" Checks the output from Display "NOT Display IC the IC FOUND" no. Display IC is good Outputs Yes OK? Display "IC Display "IC BAD" GOOD" Stop

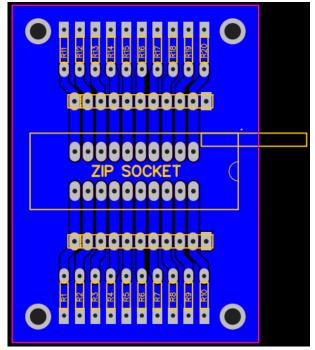
Methodology

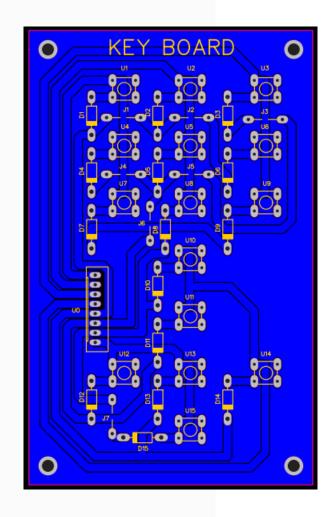
Circuit Diagram



PCB DESIGN







Testable ICs on our device

Manual supported ICs: 4011, 4030, 4077, 4093, 4071, 4081, 4001, 4070, 7266, 7402, 7401, 4073, 4075, 4023, 4025, 7411, 5411, 7410, 7412, 7427, 4069, 7404, 7405, 7414, 7400, 74132,7403, 7408, 7432, 7486, 5408, 5479, 7409, 5409, 4029, 4000, 74393, 7421, 5421, 7420, 4082, 4012, 4002, 4072, 7430, 4068, 4049, 4050, 7474, 7476, 7479,7478,7473

Auto supported ICs: 4081, 4001, 4070, 4030, 7266, 4077, 4071, 7401, 7402, 4011, 4093, 4073, 4075, 4023, 4025, 7411, 5411, 7410, 7412, 7427, 4029, 74393

Thank you

QUESTIONS?