

# ECHOSYNC 8X

## DSPIC33A MICROCONTROLLER BASED STRUCTURAL HEALTH MONITORING SYSTEM

# ECOSYNC 8X

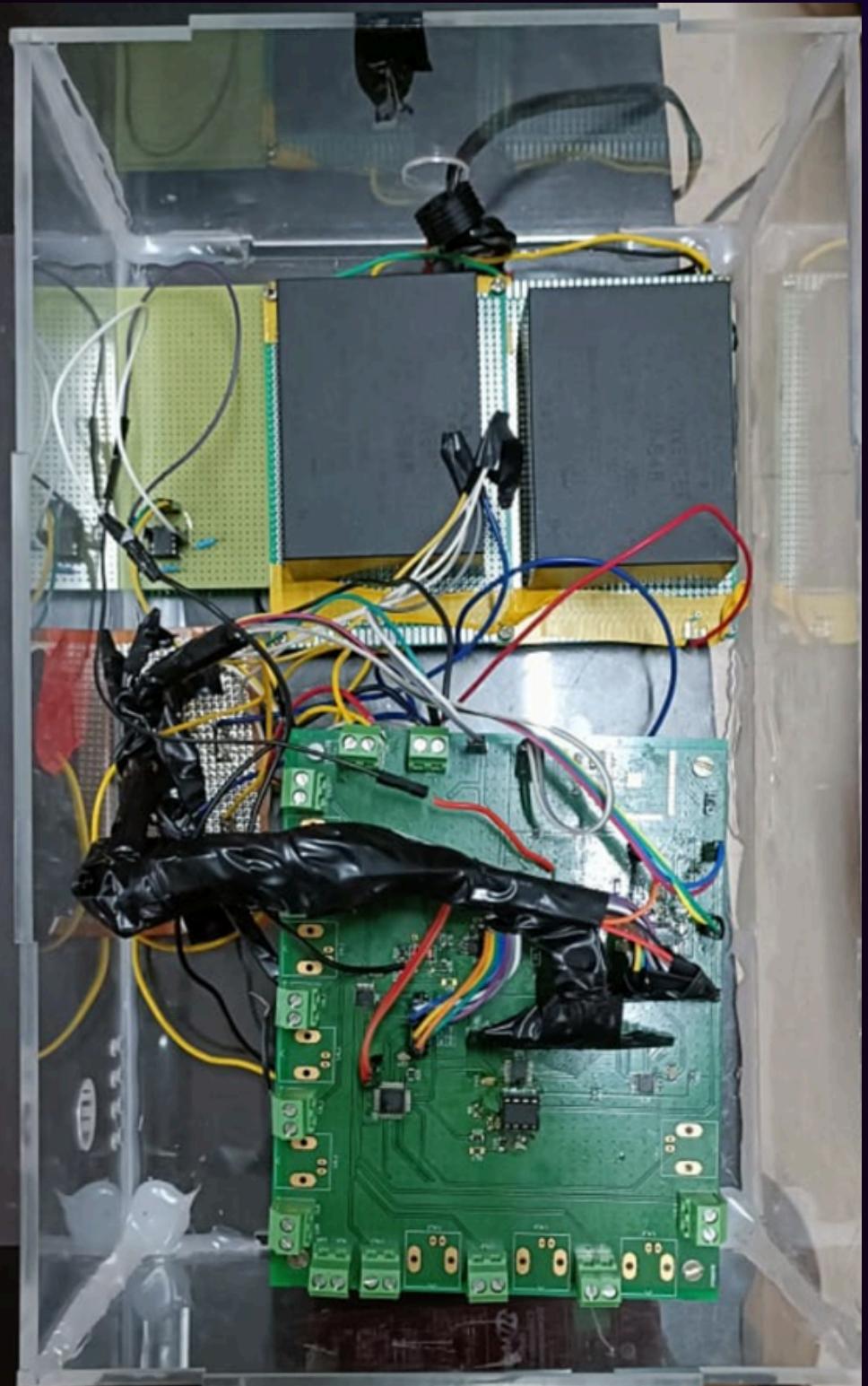
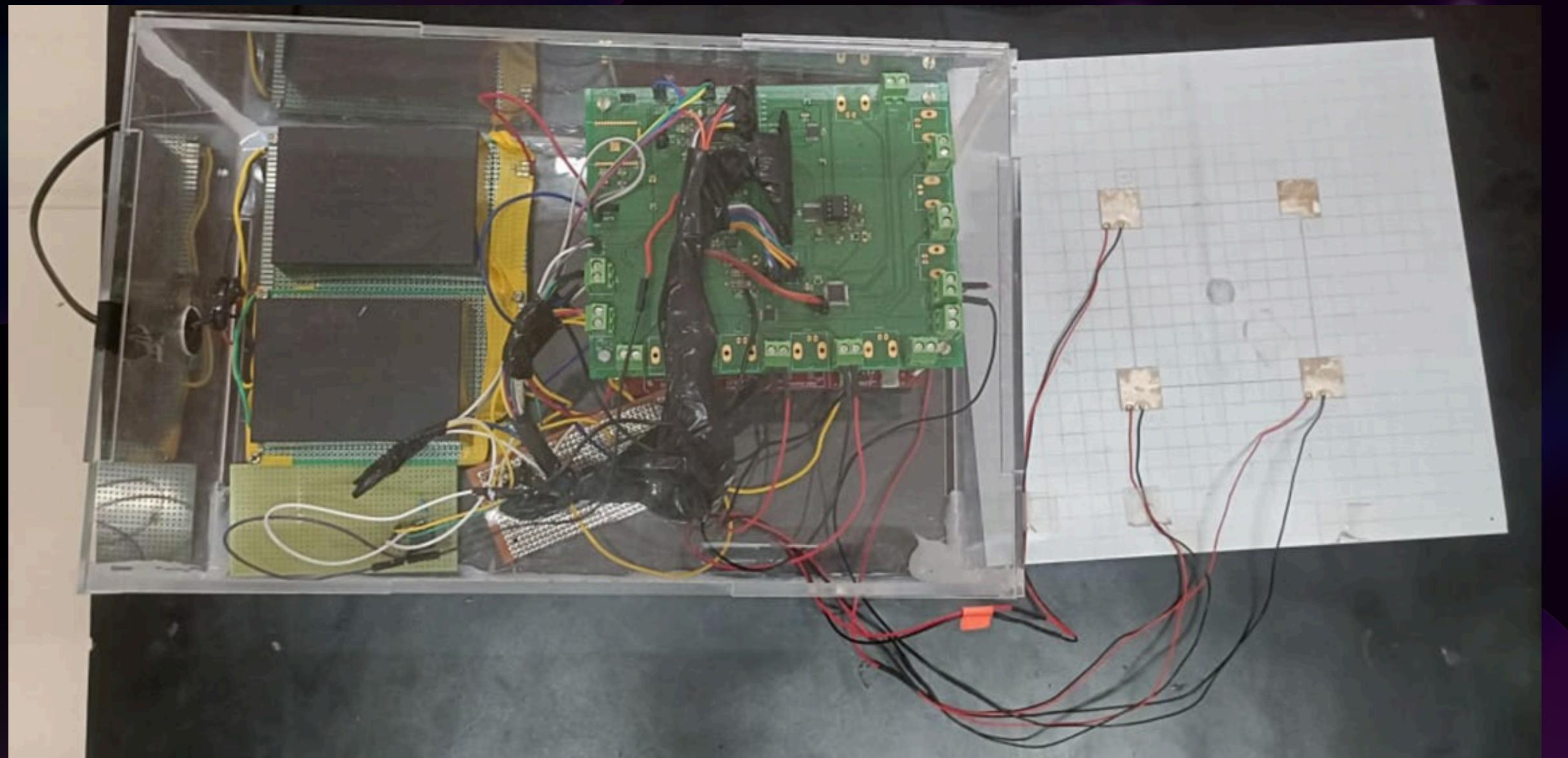
- 1.Ultrasonic guided wave system capable of detecting and localizing defects on metal structures
- 2.Intended for engineers and maintenance personnel working in structural health monitoring
- 3.Product addresses need for real-time, wireless, cost-effective and non-invasive inspection



# CURRENT PROJECT STATUS

Initial Ideation	Current Status	Justifications
Ultrasonic guided wave-based embedded platform	Partially Complete	Received correct waveforms at the end of INA on PCB. Data acquisition through ADC working on breadboard but not on PCB
8 Transducer Channel Support	Complete	-
Wireless Data Transmission	Partially Complete	Not integrated with PCB
Instrumentation amplification for receiver signal	Completed	-
Power Amplifier	Complete	Using External Power Amplifier

# FINAL PROTOTYPE IMAGES



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