

Enhanced Mobile Facial Recognition System

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Problem Statement:

Improve the security and quality of facial recognition software used in mobile devices with the inclusion of 3D imaging for a larger data set.

Project Deliverables:

- Control board interfacing external camera & smartphone
- Android facial recognition App
 - obtains quantitative image data
 - defines qualitative facial descriptors
 - creates original facial profile
 - connects with external database
 - identifies matching profiles

Subsystems:

Control Board
Microprocessor Image Proc.
Java Image Proc.
3D Image Proc.
Facial Description & Profile
Database & Comm.
Facial Recognition Eval.

