

# Mark Jackson

## iOS App Work Overview

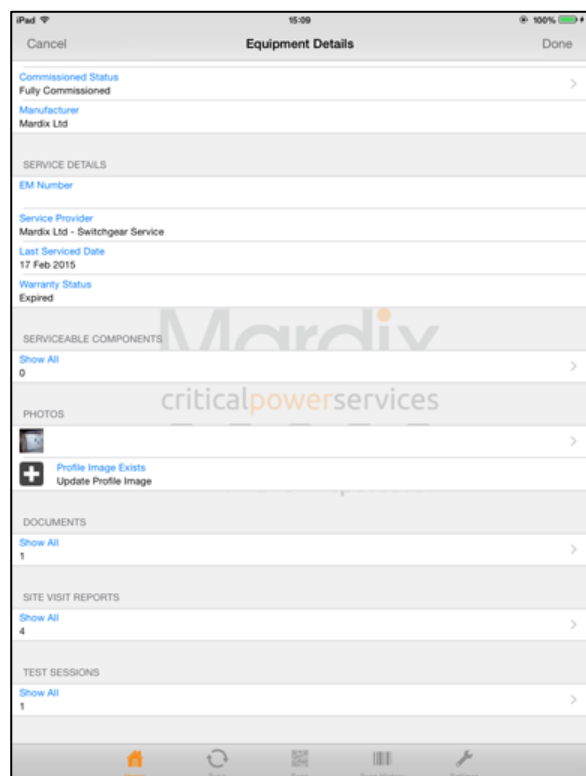
This document details a number of iOS apps I have built for my current employer, with sample screenshots in each case.

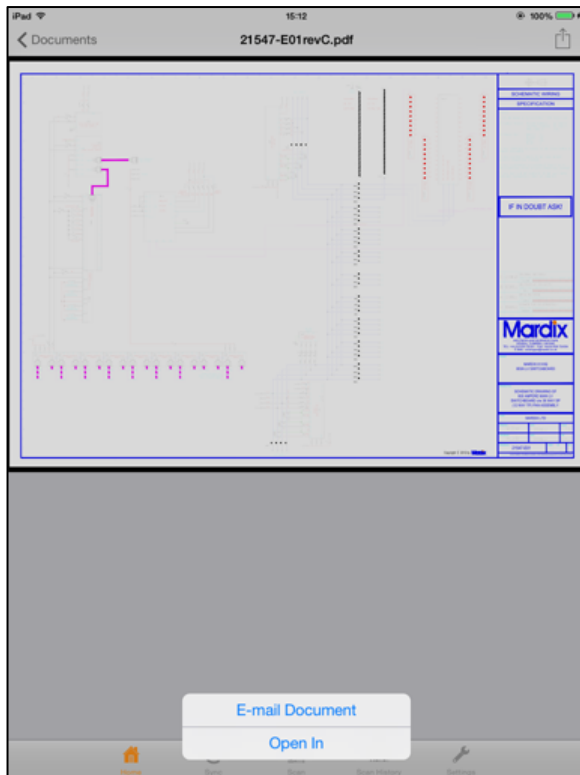
- Most apps were originally built using Objective-C (with first apps being designed for iOS 5), but some now have Swift modules, with one currently undergoing a full rewrite in Swift.
- All apps are rebuilt each year against the latest iOS SDK to keep code maintainable and relevant.
- All apps are coded native, and are designed with fully adaptive layouts to allow universal usage across multiple devices.
- All apps communicate with a common REST-based web API, and authenticate using OAuth with login credentials.
- In addition to the code, I also produce all my own graphics; I am responsible for look and feel as well as functionality.

## Site Visit / Testing App

An app used by site engineers to log site visits, update equipment data, and perform testing.

- Data is synced to and from an in-house ERP system via a web API, to allow offline working while on site and potentially out of signal range.
- Equipment items are scanned using dedicated QR codes, the data from which is then used to identify and display their details stored in a local SQLite database.
- Site visit details are logged by text input, and by taking photos in-app.
- Electronic test certificates can be synced from the server and completed in the app; this functionality used the Foxit iOS SDK.
- App interrogates the PDF form data comprising test certificates, to extract additional metadata and automatically set the properties of certain fields.
- App also allows time logs to be entered.
- Emergency sandbox transfer facility to allow local database and files to be synced directly to the server to aid with remote support and diagnosis of issues.





Carrier 3:38 PM 100%

Test Certificate STF01

EQUIPMENT: Main Switchboard c/w 36way SP / 12way TP Pan Assembly

PANEL REFERENCE: Main LV Switchboard

UNIT SERIAL NO: 21547001/111

CARRY OUT VISUAL INSPECTION OF:

COMMENTS

sign n/a in comments for non-applicable inspections

1. Cabinet finish

a. Defect free

b. Colour in accordance with GA drawing

c. Internally clear of foreign bodies/debris

2. Components (in accordance with GA & schematic drawing)

3. Wiring

a. Presentable

b. AC & DC/volt free/comms segregated

c. Sizing (in accordance with schematic drawing)

4. Labels

a. Voltage warning per inner door / cover

b. Circuit / IO device references

c. Mandix Service Tag & peel off sticker

d. Designation marking

e. Interface terminal ID markers

f. Fuse & relay ID markers

5. Phase indication

a. Input & output terminals

b. Main busbars per unit section

c. STS & transformer cable ID tags

6. Degree of protection

a. External (in accordance with GA drawing)

b. Internal (IP)

7. Segregation (in accordance with GA drawing)

Comments

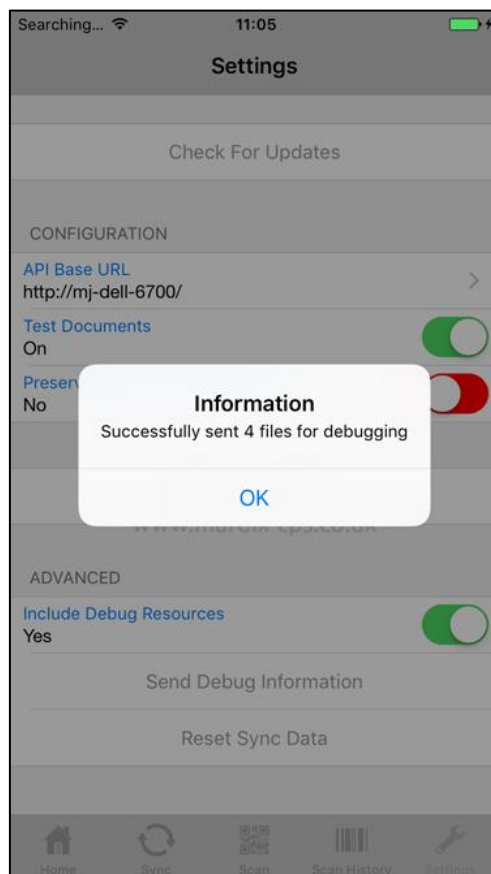
Q W E R T Y U I O P

A S D F G H J K L

Z X C V B N M ! , ?

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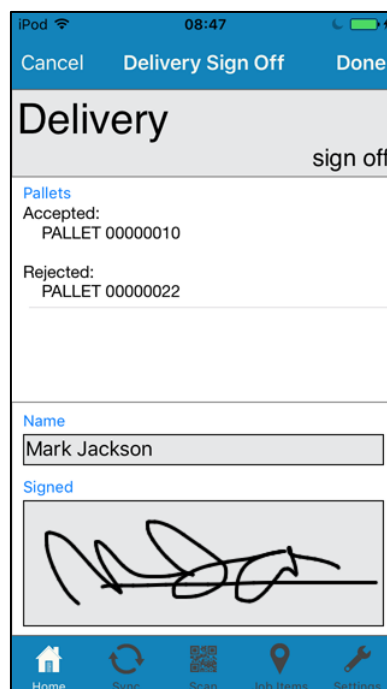
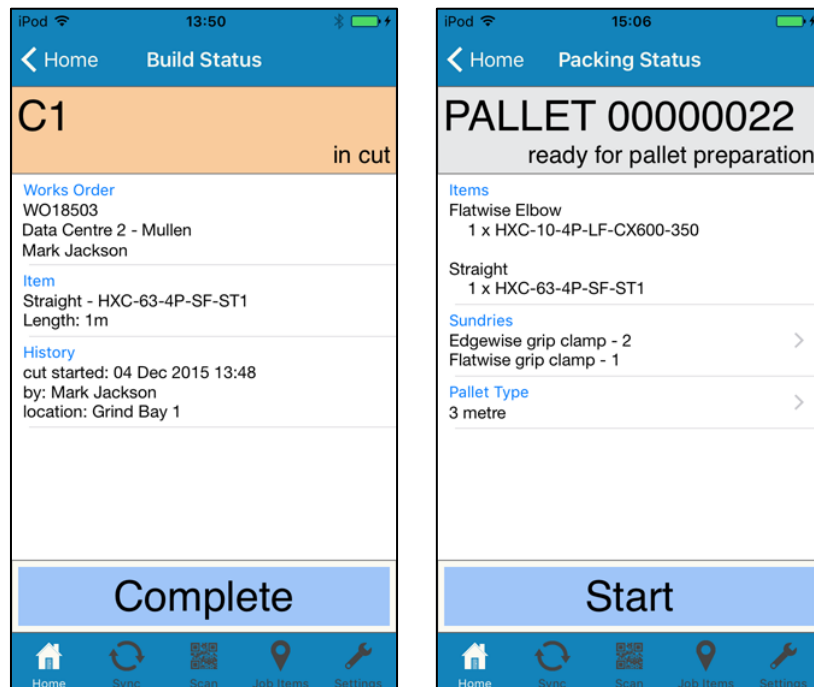
Done



## Production Monitoring App

App used to progress production parts through the factory manufacturing process.

- App uses real-time API calls instead of offline working.
- Point-and-scan functionality to allow parts and factory locations to be quickly and accurately identifier without need for search or text input.
- Design optimised for iPod Touch for convenience of use.
- High volume usage.
- Capture metrics used for production monitoring and capacity planning.



## Factory Process Tracking App

App used to track specific factory processes relating to conductor bar manufacture.

- Simple search functionality performs type-ahead lookup directly from web API.
- Allows close monitoring and real-time process updating.
- Lightweight app with highly dedicated functionality.

iPod 14:12

< Users Register User

Username m.jackson@mardix.co.uk

Password .....

Register

iPod 14:13

Cancel PIN

Please enter your PIN

iPod 14:17

Cancel Search Go

Search Works Order Number

2417

WO24179  
1 Hous Street

WO24172  
CPS10898 Valley House

WO24173  
Additional Interlock

WO24176  
CPS-24176-1rev0 Cole Valley  
Engineer Attendance

iPod 13:13

< Search Production Lines

WO24179 M23

Package Substation 2500A  
1.25MVA Transformer Packaged  
Substation c/w Close Coupled 2500A  
Main LV Switchboard Ref: SB7A  
Build 50 - 75%  
Start: 23 Feb 2018  
Finish: 09 Mar 2018

1 of 2 sections punched

1 of 2 sections folded

Home Search Settings

## Stock Management App

App to track and update stock on warehouse shelves.

- Point-and-scan functionality allows easy scanning of parts and shelves to book stock in/out.
- Displays up-to-date stock levels.
- Allows overall stock counts to be reset or blind-counted.
- Data captured is used in stock value/usage reports.

