PALM Associates, Inc. Software product development for communications

PALM – Experience Public Service

Capabilities and experience in support of Public Service Programs PALM Associates, Inc.

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Summary

- PALM specializes in all aspects of communications, networking and security
- Directly applicable experience in these areas
 - Energy Management
 - Real time data acquisition
 - Network monitoring and reporting
 - Robotics
- Development using a variety of sensors GPS, accelerometer, touch screen
- PALM is an expert member in the NIST Smart Grid CyberSecurity Working Group

Capabilities

Variety of Real Time OS

- Green Hills
- zRex
- Tiny51
- VxWorks
- Mobile / Wireless Applications
 - Handset platforms: Windows Mobile, Symbian, Brew, iPhone, Java
- Embedded system development, both server and client
- Implementations using key protocols
 - RS 485
 - ZigBee
- Many small & embedded platform developments
- Low level development, test and integration with Cygnal, Lauterbach, Jtag, Freescale, etc.
- Sensors used GPS, accelerometer, touch screen

Value Proposition

- PALM brings a wealth of experience in all aspects of mobile communications – a key element in Smart Grid deployment
- Deep knowledge of the relevant communications technologies results in a short time to market for development
- Familiarity with small, embedded platforms means our staff are comfortable in the development of efficient, power and size sensitive applications – no complex reimplementation necessary after exposure to the platform used for deployment
- Expert consulting to key Smart Grid providers gives PALM engineering a unique perspective on the requirements and architectural solutions available.

Charatable Foundation Project

- This demonstration serves to exhibit the basic data collection and alerting capability of handset data collection when associated with the Data Collection service
- Deployment is to developing countries

Architecture



mage Exchange



Conclusion

Validation of text and image entry from field workers using basic handsets was achieved

Formatted text and image data capture is possible with scripted sessions even with inexperienced workers and basic handsets

Correlation, analysis and data reduction possible when presented to medical analysis software



Google GLASS ® at PALMASSOCIATES, Inc. Technologies and Product Initiatives

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Technology Areas

Wearable Devices

Applications in the following: Medical instrumentation Personal health Mobile Health Physician's Display

Mobile Device Security

Information storage and protection Mobile security (see NIST 800- series)

BYOD

Applications in medical informatics

Mobile Health Informatics

Security and privacy

Time Frames

Standard design pattern for Glass







Are you ready for game night this Saturday?

just nor







Development Notes

- Time Frames
- User Features for Alzheimer Patients
- Sensors
 - Accelerometer
 - Gyro
 - Compass
 - Proximity
 - IR
- Runs on Ti OMAP4430
- Sensors managed by 'glasshub'

Navigation



Alzheimer Assistance Facial Recognition Open CV

ok glass, get directions to... send a message to... make a call to... make a video call to... take a note with...



ok glass, take a note with... Evernote Speak now Start speaking ...



Conclusion

- Google Glass is an ideal personal life style enhancement for Alzheimer patients
- Design patterns can be adopted to challenged individuals
- A variety of I/O can be used:
 - Speech
 - AR overlays
 - Audio
 - Head movements
 - Other sensor inputs