

TECHNICAL SEMINAR ON

SMART QUILL



Presented By:-

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Aim of The Presentation

- To familiarize the audience what SMART QUILL is all about.
- To explain it's advantage over other technology.
- FUTURE SCOPE of the existing technology.

SMART QUILL

- What is SMART QUILL?
- How it is related to Computer?
- How it is related to new millennium era

HISTORY

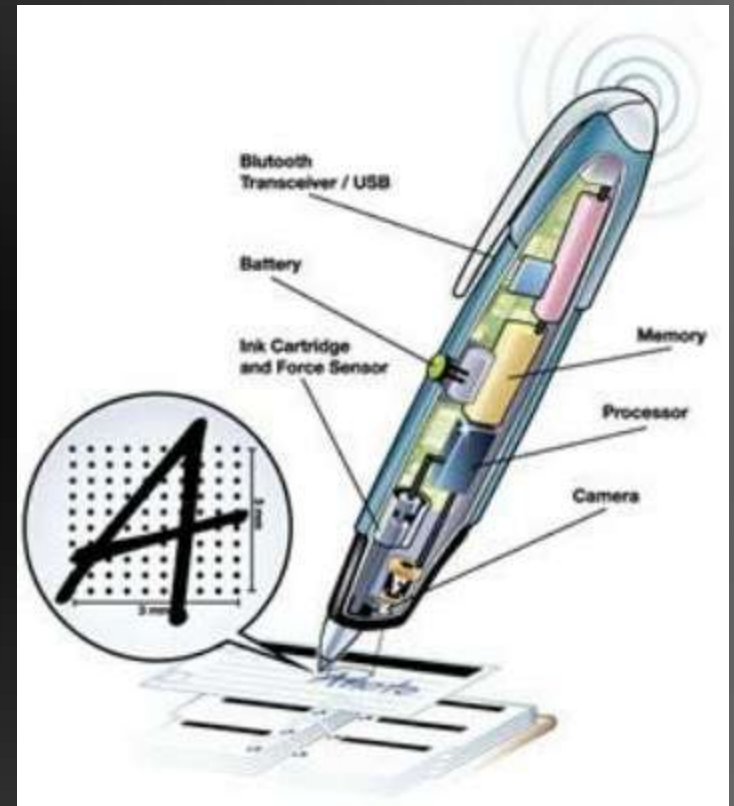
ABOUT

- Inventor
Lyndsay William of Microsoft Research
- Basic Idea
- Screen
- No need of any special surface
- Uploading & downloading
- Security



Digital Pen ...?

- What are the digital pens?
- How Smartquill differs from digital pens..



Digital pen

Working...

- Accelometres
- PIC-8 Microcontroller



PROTOTYPE



Hardware Based

Technical Specification

- Display Technology
- Handwriting Recognition and Signature verification
- Display scrolls using tilt screen
- Communication with other devices
- Memory
- Power

Display Technology



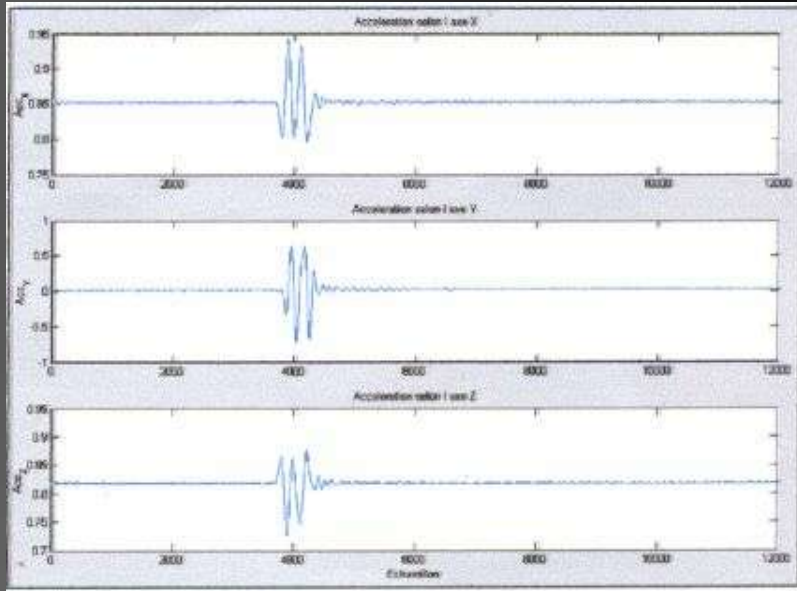
Handwriting Recognition & Signature Verification

- Accelerometer technology

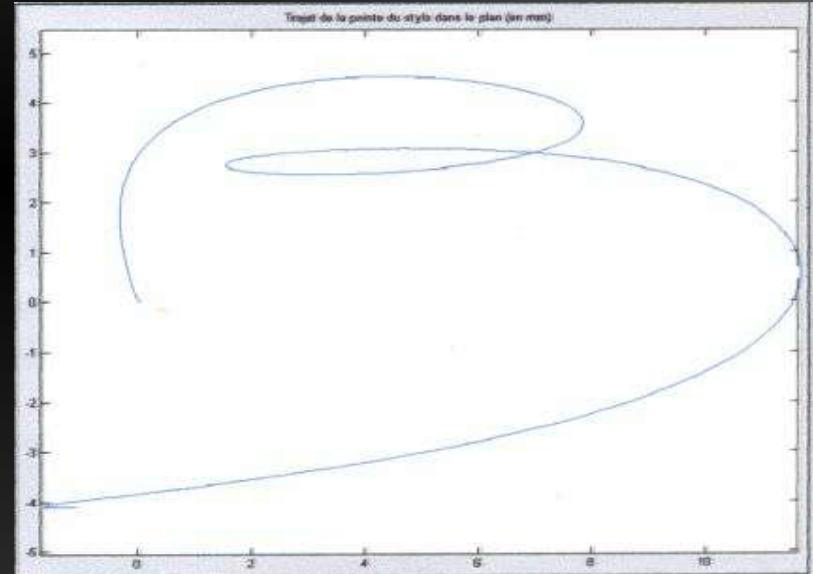
How It Works

- Working
 - Tiny accelerometer
- Types of Accelerometer
 - 2 axes-ADXL 202
 - 3 axes-tronic +/-2g

Handwriting transcription

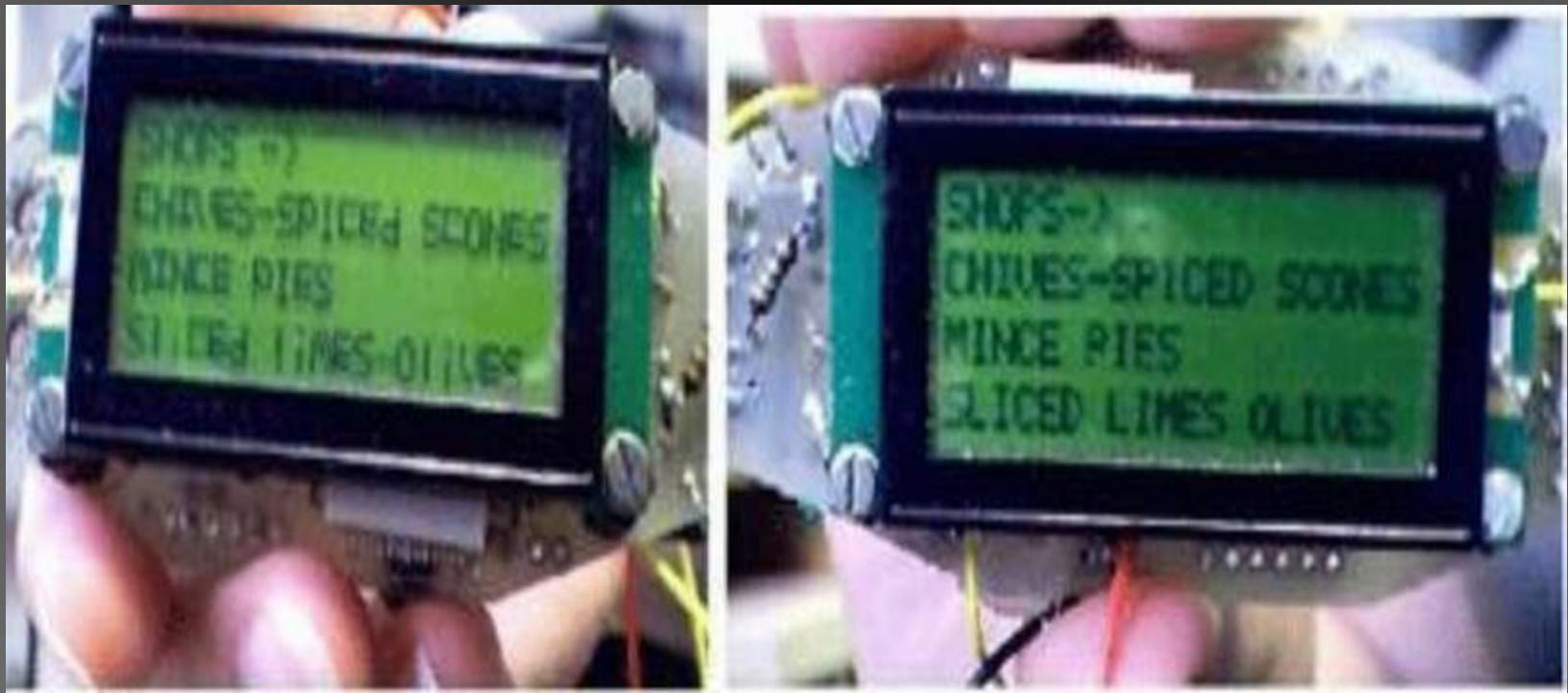


Acceleration signals



Transcription result

Display scrolls using tilt sensors



Communication with other devices

Memory

- 4MB EEPROM
- Capacity



Power

AAA Battery :

AntiAircraft Arbitrary Battery

Size:

44.5mm Long and 10.5mm in diameter

Weight:

11.5 gm



Application

- Replace keyboard with SmartQuill
- Input to other device
- Handheld comp application
- the wireless messaging system which allows two way communications
- voice record and supports speech recognition.
- third party to add on applications

General Application

- Write notes on paper - record in pen - download to PC
- Database - names and addresses
- To Do list
- Clock and Alarms
- Calculator
- Pager

Assets

- "Spatial Sensing" system
- Intuitive user interface
- Security
 - Handwriting recognition
 - Signature verification
- 3D-mouse
- Power saving
- SmartQuill is all mobile

Conclusion

- The future of SmartQuill ensures all computation power the user needs right inside the pen.
- Reducing the size of handheld computers can only be taken so far before they become unusable.
- The introduction of Smart Quill is the best solution for this problem.

Bibliography

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questions...



THANK YOU