The Neuronumerous Group Presents:

Build a Lie Detector / Beat a Lie Detector

With your hosts
Rain
And
J03b34r

Introduction by: Int80

Start to Finish

- History of Deception Detection
- The History of the Polygraph
- How We Built our DIY Polygraph
- Trying to Beat the DIY Polygraph
- The Data Aftermath

History of Deception Detection

Trial by ordeal

 a primitive method of determining a person's guilt or innocence by subjecting the accused person to dangerous or painful tests believed to be under divine control

Trial by combat

 an ancient dispute resolution method where those in dispute would fight one another until submission or death.

History of Deception Detection (cont.)

Trial by torture

 an act where severe pain is intentionally inflicted on a person to obtain a confession of guilt.

The "third degree"

 a euphemism used for trial by torture when used by the police.

The adversarial justice system

 two-sided structure under which criminal trial courts operate.

History of the Polygraph

1920s

Modern polygraph developed

• 1930s

Polygraph starts its move into private sector

1940s to 1950s

Polygraph meets Cold War America

History of the Polygraph (cont.)

1960 to 1970s

 Polygraph spreads rapidly in both government and private sector

1980s

Polygraph Protection Act passed

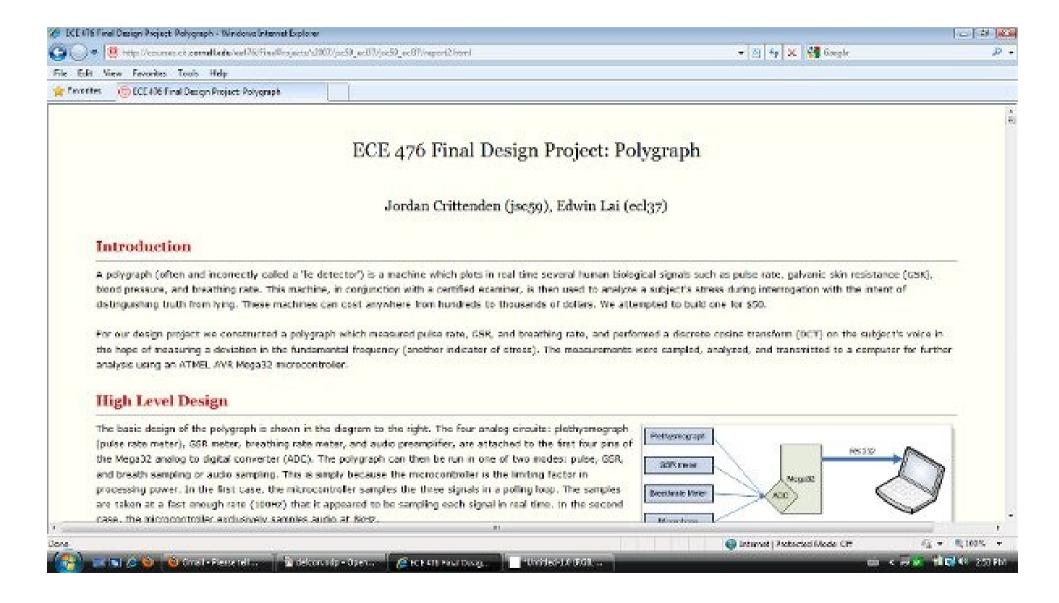
1990s to Today

Polygraph Redux

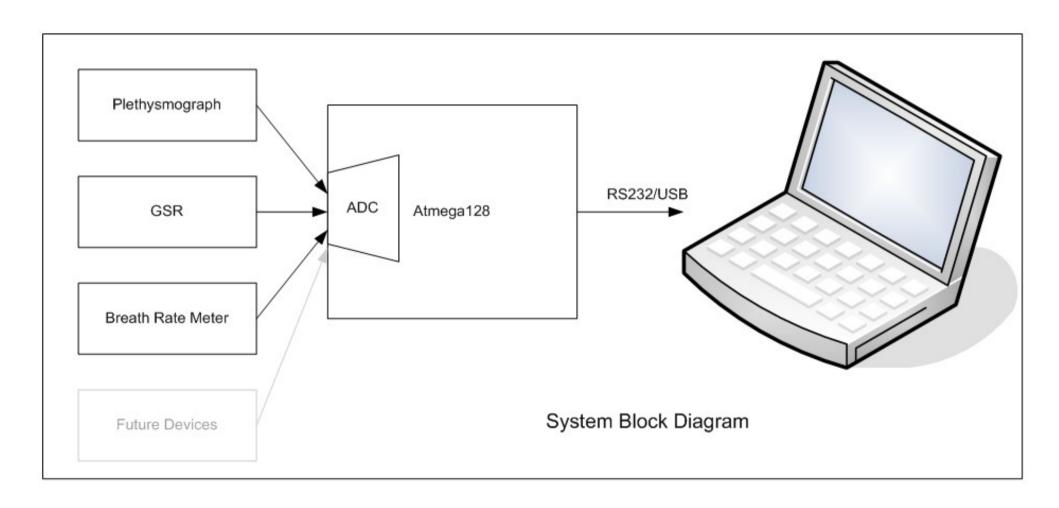
How We Built our DIY Polygraph

- Gotta start somewhere
- Respiratory rate
- Galvanic skin response
- Pulse

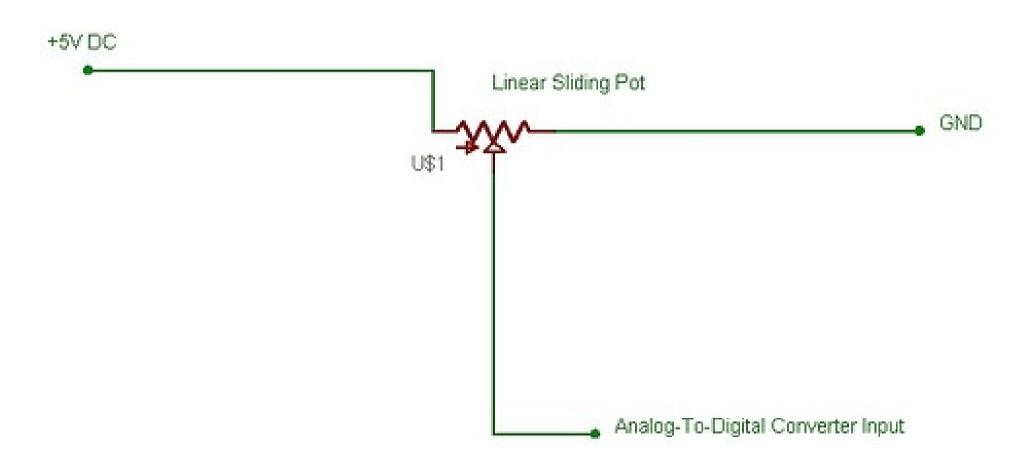
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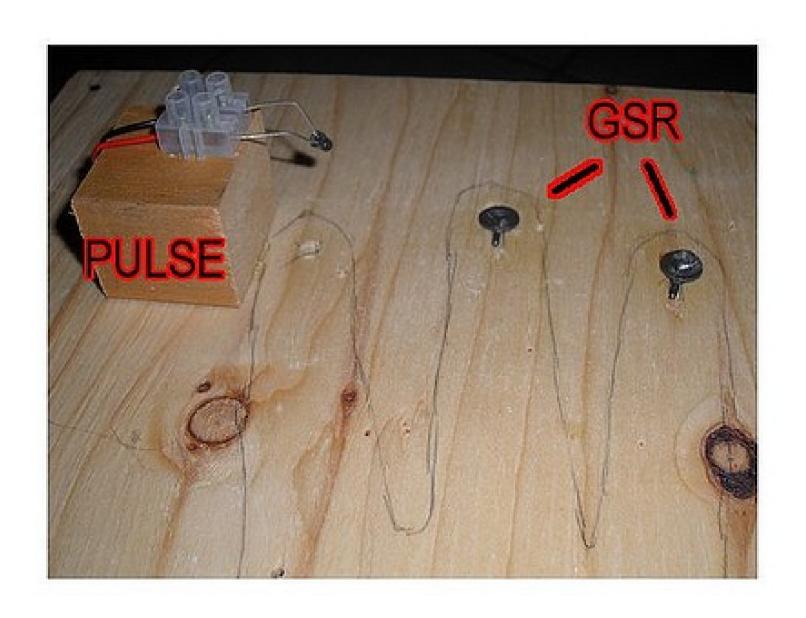
How it Works



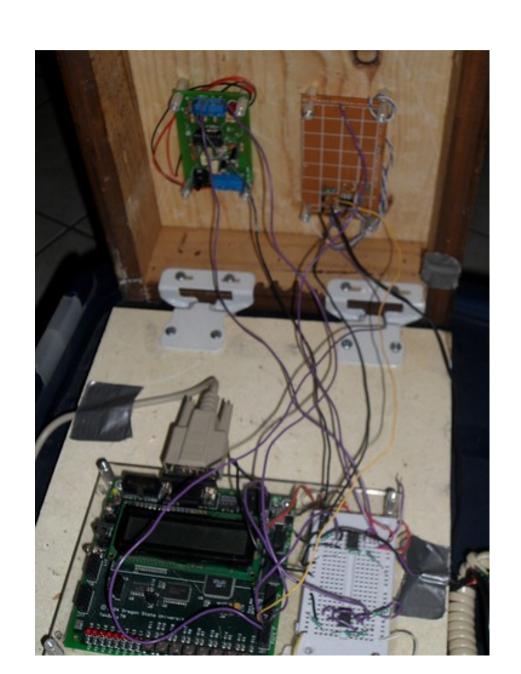
Oldgrover's Super Sweet Breathing Band



Outside the Box



Inside the Box



Trying to Beat the DIY Polygraph

- The numbers test
- Breathing strategy
- Biting tongue
- Contracting anal sphincter muscle

The Data Aftermath

- What went right
- Surprises and pitfalls
- Future jumping of points

Shoutouts and Thanks!

Psychedelicbike, Oldgrover, Christian Gruber, Int80, Dead Addict, Anonymous, Brad Smith, Seth Hardy and of course the rest of the Neuronumerous group. (I love you guys!)