Secure VoIP  CUBE
Outline

- **Who?**
  - CUBE Members

- **What?**
  - Project Description

- **How?**
  - Design and Implementation

- **Next?**
  - Finalizing Project
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CUBE

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- Secure VoIP
  - VoIP stands for “Voice over Internet Protocol”

- Aims low cost and secure communication
  - No extra cost other than internet fee
  - Data can be encrypted

- Targets from companies, military, government to home users
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VoIP with external device
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Technologies & Tools

- AVR32 Network Gateway
  - Linux Kernel 2.6.33.4
    - Audio Bitstream Digital Analog Converter (ABDAC)
    - JamVM (Java Virtual Machine for Embedded Device)
    - Ethernet Port
    - Serial Port
    - U-boot
    - Crypto Modules

- Java & C
AVR32 Network Gateway
So far?

- Voice Communication over AVR32NGW100
  - Voice Data flow over AVR32NGW100

- Sound Driver for AVR32NGW100
  - Audio Bitstream DAC Driver

- Speaker and Microphone
  - via Expansion Headers
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Next

- Encryption / Decryption Module
- Increasing Sound Quality
- Testing
- Shining & Packing Up
- Finalizing documentation & project
Thanks for your attention.

You are welcome to ask questions.