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# SELF INTRODUCTION

- Open-minded
- Self-disciplined and drive for self-improvement
- Willing to help and share
- Works well as a member of a team
- Strives to do the right thing
- Overthinker, Perfectionist

# EXPERIENCE

2014/07 – 2015/02

Delta Electronics 台達電子

HVP R&D Dept. - Firmware Engineer

- Semiconductor Fab Equipment Power Supply
- High Voltage DC Power Supply

2015/03 – 2017/08

Montage Technology 瀾起科技

Software Dept. - Software Engineer

- Employee of the Year 2016(the only winner in Taiwan)
- Implement IoT Applications(SDK) using FreeRTOS
  - UART software Flow Control
  - AT Command Parser
- IC Test Firmware
  - FT ATE & WiFi Module MP Test
- FPGA/SoC Verification and HAL Development
- Implement CI and White-box Test Flow



# EXPERIENCE

2017/09 – 2019/04

Phison Electronics 群聯電子

Chip R&D Dept. - Firmware Engineer

- NAND Flash Controller IC HAL Development
- FPGA/SoC Verification
  - NAND Flash IP
  - Error Handling(Raid)
  - Coprocessor Communication(ARM + Andes)

2019/05 – Present

Igis Technology 神亞科技

System Design Dept. - Senior Engineer

- System Firmware Architecture Design and Development
  - BootROM, BSP, Security Update, ISR, IRQ APIs
  - Performance Optimization, Makefile, Linker Script
- Implement Command Line Interface(UART) and Porting FreeRTOS
- Sensor Driver & HAL Development
- FPGA/SoC Verification
  - UART, GPIO, Interrupt, Timer, Timing Control, SPI slave
  - DSP, DMA System Bus, PMU, ADC, Sleep mode



# SKILLS & TOOLS

## Skills

- Languages
  - ✓ C
  - ✓ Assembly
  - ✓ Bash
  - ✓ Python
  - ✓ Markdown
- Applications & Drivers
  - ✓ UART (flow control)
  - ✓ GPIO, SPI, ISR, Timer, ADC
  - ✓ Command Line Parser
  - ✓ Power Saving mode
  - ✓ FreeRTOS
  - ✓ Boot ROM, Bootloader

## Tools

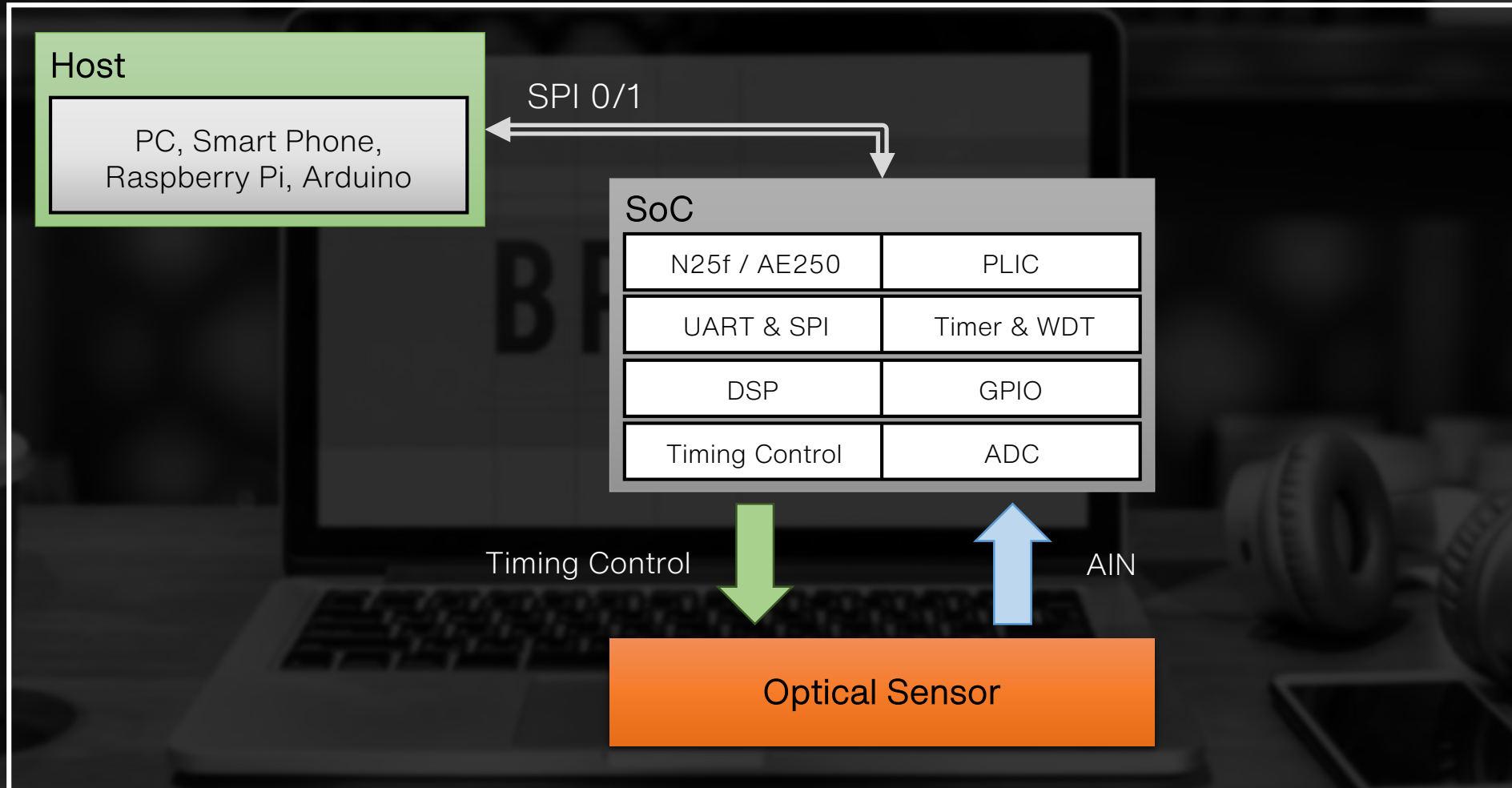
- Debug Tools
  - ✓ ICE
  - ✓ Scope
  - ✓ Logic Analyzer
- Code Editors
  - ✓ Vim
  - ✓ Source Insight
  - ✓ Meld
- Version Control
  - ✓ Git
  - ✓ SVN
  - ✓ Sourcetree
- Ubuntu, Linux Bash Command
- Synopsys HAPS & Verdi
- Cadence Palladium





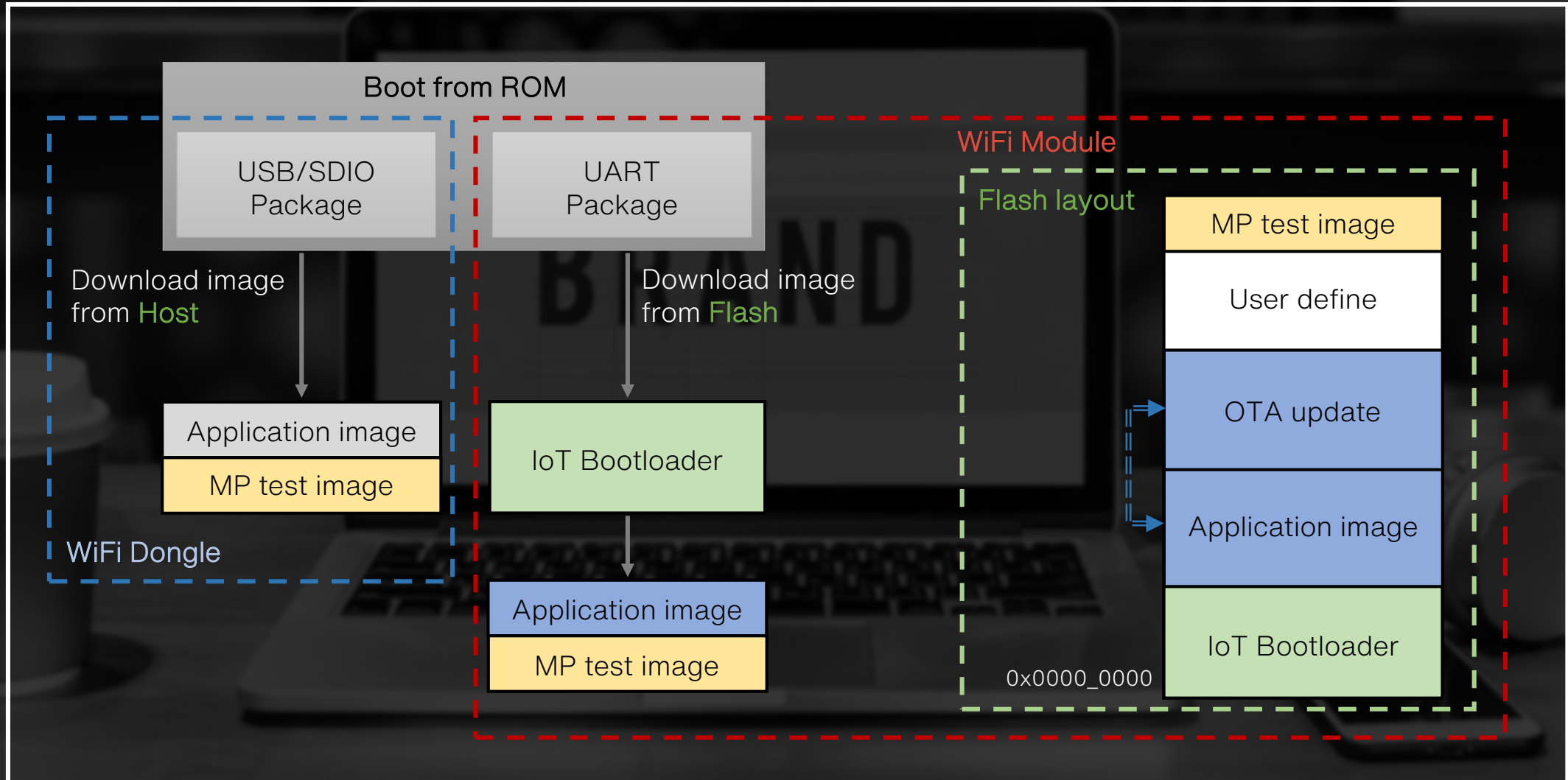
# **WORK EXPERIENCE FLOW CHART**

# Fingerprint Capture

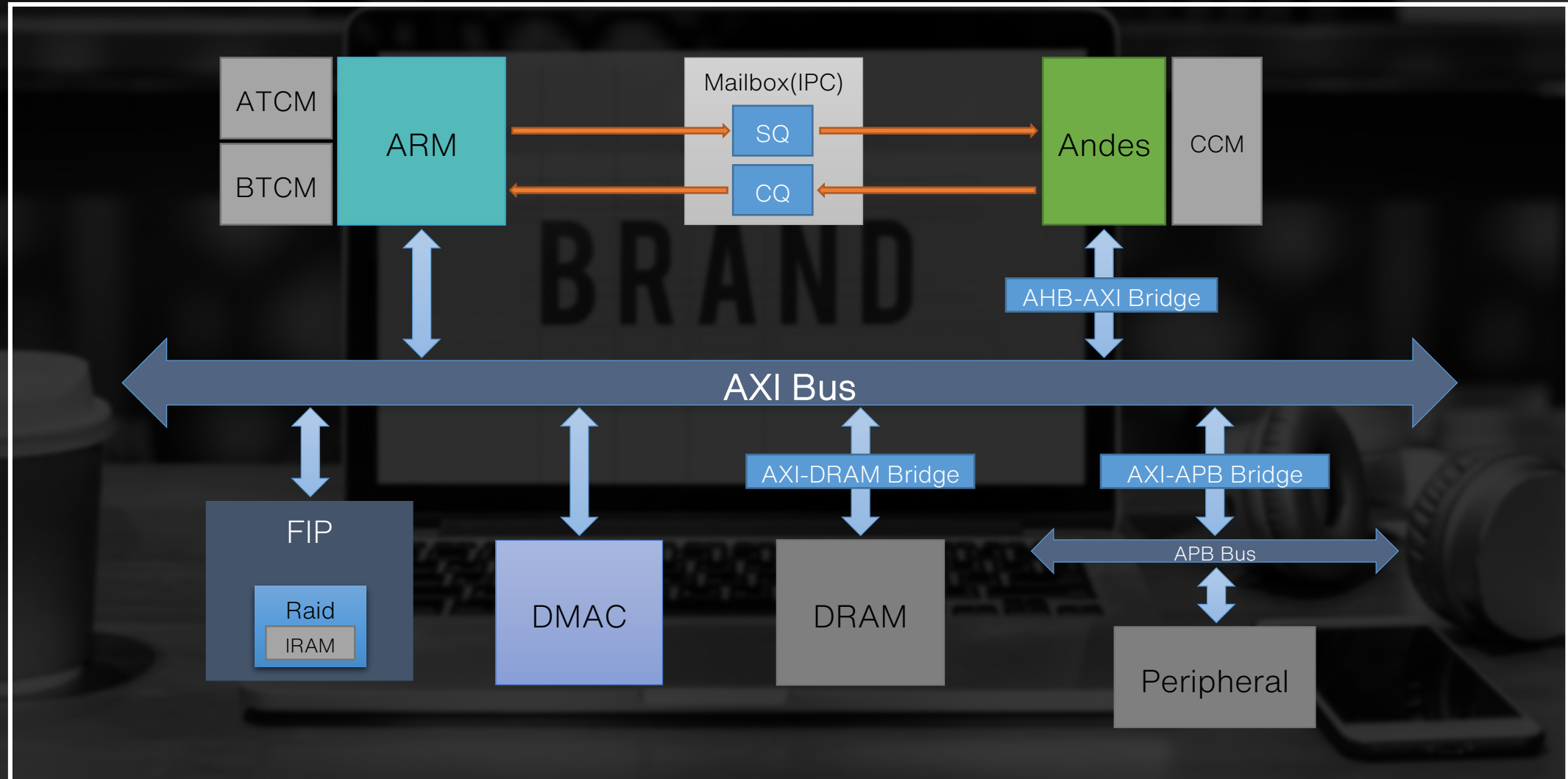




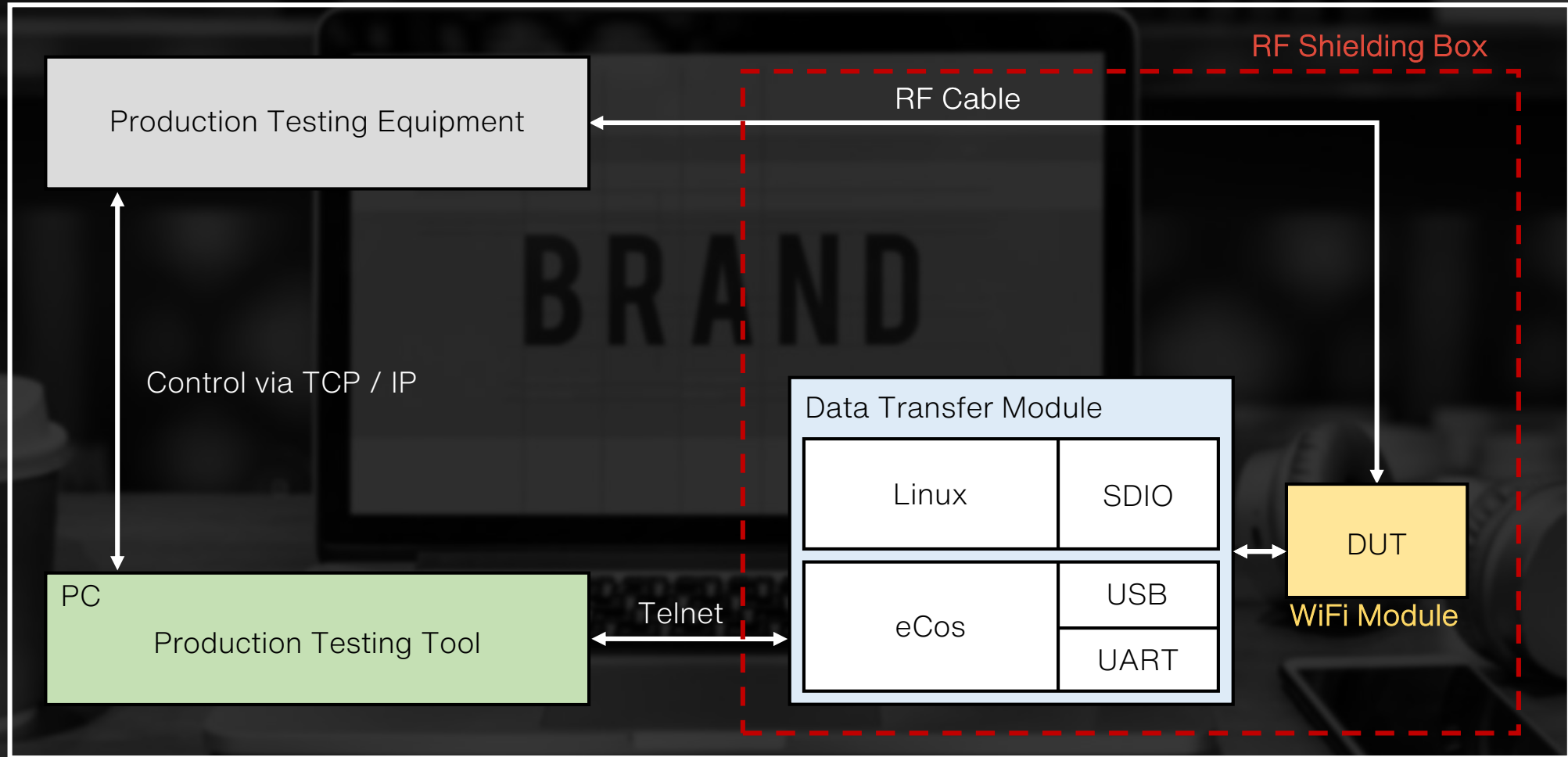
# WiFi Module Boot Flow



# Coprocessor Architecture



# Mass Production Test





**Thank You**