

# Zain Ahmad

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## Education

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### The Hague University of Applied Sciences

HBO-ICT

*The Netherlands, The Hague*

*2015 – 2019*

### Avans University of Applied Sciences

MINOR SOFTWARE ARCHITECTURE

*The Netherlands, 's-Hertogenbosch*

*2018 – 2018*

## Work Experience

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### TNO

RESEARCH ASSISTANT (INTERN)

- Research wireless protocols
- In-depth research on ZigBee
- Implementing ZigBee protocol for embedded devices
- Wireless deployment of firmware for network of devices

*The Netherlands, The Hague*

*2017 – 2018*

## Skills

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**Coding:** C++, C, Python, Javascript, React

**Tools:** Git, Travis CI, Unit Tests, Linux

## Projects

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### Chip8 Emulator

CHIP8 IS AN INTERPRETED PROGRAMMING LANGUAGE DEVELOPED IN THE MID-1970'S, FOR 8-BIT COMPUTERS. THIS PROJECT EMULATES THE CHIP8 VM, SO THAT ROMS WRITTEN FOR THE CHIP8 CAN RUN ON MODERN PC'S.

*C++, CMake, Git*

*[https://github.com/notzain/chip8\\_emulator](https://github.com/notzain/chip8_emulator)*

### ZigBee packet sniffer

THIS PROGRAM READS BYTES RECEIVED FROM A ZIGBEE PACKET SNIFFER, AND INTERPRETS THE BYTES TO FORM A HUMAN-READABLE PACKET

*C++, Qt, CMake, Git, ZigBee packet sniffer (USB COM)*

*<https://github.com/notzain/QtZigbeeHelper>*