



# Zain Ahmad


Software Engineer


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Software Developer with a keen interest in low-level programming. Motivated to learn new skills and techniques to properly tackle any problems.

## EDUCATION

### HBO-ICT

The Hague University of Applied Sciences

2015 – Present

Delft, The Netherlands

#### Courses

- Computer Networking
- Design Patterns
- Software Architecture
- Embedded Programming
- IoT
- Industrial Automation (PLC)

### Minor Software Architecture

Avans University of Applied Sciences

2018 – 2018

's-Hertogenbosch, The Netherlands

#### Courses

- AI
- Algorithms
- Data Structures
- Design Patterns & Architecture

## WORK EXPERIENCE

### R&D Developer, Researcher (Intern) PROCENTEC

2019 – Present

Wateringen, The Netherlands

PROCENTEC's primary focus is the development and manufacturing of automation products for PROFIBUS, PROFINET and Industrial Ethernet.

### Researcher (Intern) TNO

2017 – 2018

The Hague, The Netherlands

TNO is a major player in a growing international network comprised of leading scientific institutes, companies with ambitious development profiles, universities and other partners in knowledge

#### Achievements/Tasks

- Research of Wireless Protocols for embedded devices
- Developed communication library for ZigBee protocol
- Created prototype for scalable mesh networks with embedded devices

## SKILLS

C++

C

Embedded C

(Computer) Networking

Software Engineering

Agile

JavaScript, TypeScript

Python

React

Linux

## PERSONAL PROJECTS

### Raytracer

- Implemented a raytracer: a rendering technique to create complex 3D images with lighting, shadows and reflections.

### Chip8 Emulator

- Implemented an Chip8 emulator: a way of emulating how older hardware systems work to run as software on modern computers.

### Personal Site/Portfolio

- Created a personal site to showcase projects and to double as resume.

## LANGUAGES

Dutch

Native or Bilingual Proficiency

English

Professional Working Proficiency

German

Elementary Proficiency

French

Elementary Proficiency