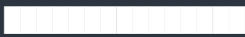


Niels Hokke

Embedded Systems Master Student

Pushing the boundaries of technology by building innovative prototypes



linkedin.com/in/niels-hokke



Github.com/NielsHokke

WORK EXPERIENCE

Embedded Engineer

08/2017 – 11/2018

Cleaning Consultancy Delft BV, Delft

Individually developed and validated an on ARM based Bluetooth prototype for high precision industrial color measurements

Electrical Engineer

03/2015 – 04/2017

Kinergizer BV, YES-Delft, Delft

Redesigned and optimized a power management for an energy harvesting application and designed a logging device that captures the output of the energy harvester in multiple scenarios

Intern

03/2015 – 04/2017

Sogeti Nederland, Amersfoort

Contributed to an ARM & FPGA based smart meter test-bench by writing communication software in C++ for the P0 port

Intern

11/2014 – 01/2015

Rexnord FlatTop, 's-Gravenzande

Industry 4.0 project where three silos full of granulate were connected to the internet to visualize the contents company wide

Intern

03/2015 – 04/2017

Kinergizer BV, YES-Delft, Delft

Designed a power management for an energy harvesting application in order to provide stable voltage outputs and proper charging regimes for the optional energy storage

EDUCATION

Embedded Systems (MSc)

09/2016 – 07/2020

Technical University Delft

Including premaster. Thesis topic in Event Driven Energy Harvesting Medium Access Control. Extra courses in: Security and Cryptography, Sustainable Innovation in Practice, and Network Security

Electrical Engineering (BSc)

09/2012 – 06/2016

The Hague University of Applied Sciences, Delft

Minor in robots and vision, extended project work in combination with a veterinarian to develop a smart litter box, attended various hackathons

HAVO, NT & NG, Bilingual

09/2007 – 06/2012

Wolfert van Borselen, Rotterdam

Internationally oriented high school with a focus on social involvement. As end project built an Arduino based color sorting robot

SKILLS

Creative problem solving

Embedded software

Git

C++

Interdisciplinary teamwork

PCB/Circuit design

Wireless

IoT

Energy harvesting

Blockchain

ARM & AVR

Python

Communication

Crypto

AWARDS & CERTIFICATES

Winner of Airbus Fly Your Ideas

06/2019

Beating 269 other student teams from around the world, together with three team members from TU-Delft, designed an energy harvesting based IOT solution for the aerospace domain

Blockchain Technology Certificate

10/2018

Successfully completed the following advanced computer science master courses: Security and Cryptography, Distributed Algorithms, and Blockchain Engineering

Socrates Honours Society

06/2012

Finished secondary education with a final grade higher than a 7.5

VOLUNTEER EXPERIENCE

DORPeling

06/2016 and 06/2018

DORP, Welcome to the village

Extended the functionality of a large art installation by programming a visual to audio translation

For ten days worked in an interdisciplinary team to solve the food scarcity problem by marketing insect fries

Trainer

01/2010 - 12/2011

Rugby club the Hookers

Trained 4/5 year old children in the game of rugby

PERSONAL PROJECTS

Smart front door

Allowing remote access, access through NFC-tag, and live feed of front door traffic

Student house app

Controlling all home-made smart appliances in the house

BEN widget

Android widget showing mobile usage data on the home screen

Smart mirror

Integrated screen showing agenda and daily updates