BRAM PRONK

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PROFILE

Student Computer Science and Engineering with a human vision. I strive towards opportunities that allow me to improve quality of life in the healthcare sector.

EXPERIENCE

INTERNSHIP MOTEK MEDICAL – 2020-2021

In the quest to explore the field of medical imaging, I was able to intern at Motek Medical, a company which provides innovative solutions to diagnosing and treating balance and movement disorders. I worked on an augmented reality application of a model of the musculoskeletal system applied to footage of patients using Motek's GRAIL solution. Learned to work in a team, communicate my developments, Windows application development in C++ and background information on clinical gait analysis.

EXTRACURRICULAR PROJECT, BIOMEDICAL ENGINEERING DEPT. 2020-2021

In the final year of my bachelor, in my spare time I worked on creating a driver program for a linear stage and four linear motors, in order to steer a bendable needle for the use-case of brachy therapy. Project for the Biomedical Engineering Department of TU Delft. Supervised by Phd Student Martijn de Vries. https://github.com/brmprnk/brachyosaurus

FULL-STACK WEB DEVELOPER, INNOVATIVE DESIGN DELFT – 2018-2020

During my studies I have been employed for 16 hours per week at IDD. I managed a project for which I was the sole programmer; a web app that was used for planning in a hierarchical and recipe based manner, to be used for documenting organisation-wide protocols.

EDUCATION

DELFT UNIVERSITY OF TECHNOLOGY – BACHELOR'S DEGREE COMPUTER SCIENCE AND ENGINEERING | MINOR BIOMEDICAL ENGINEERING – 2017-PRESENT

I was drawn towards Computer Science due to its unique blend of science, engineering and mathematics, with emphasis on problem and puzzle solving. Hardware became my main interest, due to the physicality and unique ideas it is able to manifest. The interest for hardware has developed into the desire to create and design hardware and software for the healthcare sector, after a completion of the minor Biomedical Engineering. During, I successfully completed a project about the effectiveness of novel printable pressure sensors in the prevention of pressure ulcers.

LEIDEN UNIVERSITY – FIRST YEAR OF BACHELOR'S DEGREE PHILOSOPHY – 2016-2017

Before committing to an exact science, I wanted to get a more firm grasp on the who and what of it all. Learning about Existentialism, Dualism and Platonism were key in that process.

DENISON UNIVERSITY – FULBRIGHT SCHOLARSHIP – 2015-2016

I had the opportunity to follow education at a Liberal Arts University in Granville Ohio, USA. I completed my freshman year, majoring in Computer Science.

SKILLS

Programming languages:

- Java
- Python
- C++
- Javascript
- PHP

Other languages:

- HTML/CSS
- SQL

Specialised subjects:

- Computer Networks
- Linear Algebra
- Digital Systems and OSes
- Digital Image Processing
- Orthopedic Biomaterials
- Introduction to Quantum Computer Science