VINCENT R. KOETEN

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EDUCATION

Master of Science in Embedded Systems November 2018
Delft University of Technology, the Netherlands.
Thesis: Embedded Neural Networks for Continuous Patient Posture Classification

Bachelor of Science in Computer Science (Magna Cum Laude) June 2016
California State Polytechnic University, Pomona, United States of America.

WORK EXPERIENCE

Momo Medical November 2017 - November 2018
Trained and utilized neural networks for classifying sensor data. Implemented and tested an optimization for executing neural networks specific to posture classification. Examined various sensor configurations to optimize data acquisition.

Forze Hydrogen Electric Racing September 2016 - August 2017
Worked on a small team to redesign the power supply and distribution unit. Independently measured and built cable-trees from wiring connection schematics.

Epic Systems Summer 2015
Prototyped the redesign of a native Windows application to a web platform using ASP.NET with a small team of interns. Modified core work-flow engine and implemented additional customization options.

PROJECTS

Electric Vehicle Charging November 2017
Utilized Constrained Markov Decision Processes to optimize the coordinated charging of electric vehicles on a limited electrical grid with changing electricity price.

Quadcopter October 2017
Team lead in course project for developing the control software for flying and stabilizing a quadcopter using a joystick connected to a PC. Designed and implemented the custom message protocol over UART and the state machine controlling the safe operation and numerous flight modes.

Lost Professor May 2016
Provided algorithm design and led a small team in implementation of geographical pattern matching and shortest path calculation for a course project in parallel processing.

Groceries For Us February 2015
Built a Java Spring REST API with MongoDB for a web based grocery list application designed to be easily sharable for households and roommates. Added cost-splitting for group purchases and specific items.

Bronco Scheduler January 2014
Implemented the initial algorithm for schedule generation during a hackathon for a web based application used by over 17,000 students in selecting classes.

SKILLS

Programming Languages
Python (advanced), C (proficient), Java (proficient), Git (proficient), C++ (intermediate), C# (intermediate), LaTeX (intermediate), HTML (basic), CSS (basic), Javascript (basic)

Operating Systems
MacOS (advanced), Windows (advanced), Linux (proficient)

INTERESTS

Water Polo and Swimming, Formula 1 Racing, Cooking and Baking