

Alexander Goddijn

PHYSICS · COMPUTER SCIENCE · ENGINEERING

☎ (+1) 778-929-4909 | ✉ alex.goddijn@gmail.com | 🌐 www.agoddijn.com | 📷 agoddijn | 📺 agoddijn

Skills

Software C/C++, HTML5/CSS, Javascript/Typescript, git, Java, ROS, Node, Express, Angular, React, Linux, Assembly, Julia, Python
Physics Classical Mechanics, Thermodynamics, Quantum Mechanics, General Relativity, Electromagnetism, Control Theory
Languages French, Dutch, English (all fluent)

Experience

N26 PRODUCT MANAGER

Jun. 2018 - Dec. 2018 *Berlin, Germany*

- Ran sprints, plannings, reviews, and retros as PO of the Bank Core team
- Researched usage statistic of several existing digital products and initiated surveys for potential digital products

Autonomos SOFTWARE ENGINEER

May. 2017 - Aug. 2017 *Berlin, Germany*

- Worked as part of a team implementing a full stack autonomous driving solution
- Wrote object visualisation plugins for rViz which sped up testing and alleviated frustration
- Researched the feasibility of integrating certain computer vision algorithms into the perception pipeline
- Wrote a proof of concept for processing and extracting obstacles from stereo data

Axiom Zen / Routific SOFTWARE ENGINEER

Jan. 2014 - Apr. 2014 *Vancouver Canada*

- Had a role helping a startup as a general software engineer. Loose structure meant taking on lots of high level responsibilities
- Did front end design for website application using industry standard technologies (MEAN stack)
- Created automation tools (in Python) for setting up email templates and estimating traffic time which sped up map making

TomTom SOFTWARE ENGINEER AND PRODUCT MANAGER

May. 2013 - Sept. 2013 *Amsterdam, Netherlands*

- Assisted in the implementation of several algorithms, and helped initiate the design process for a new wearable fitness product
- Implemented clustering algorithm (k-means) to determine location of a cluster of destinations
- Created a design proposal for wearable fitness tracker

Technical Projects

Uniserve GROUP PROJECT

Jan. 2018 - Apr. 2018 *Vancouver, Canada*

- Created a full stack solution for Uniserve customers to check on the health of their servers
- Implemented most of the frontend (React), and contributed to industry grade backend architecture and implementation using CI tools and agile best practices

Morse To Speech PERSONAL PROJECT

Jan. 2017 - Apr. 2017 *Vancouver, Canada*

- Used an MSP 430 microprocessor to translate morse code to spoken text
- Wrote a UART protocol using the MSP 430 clocks, and sent ASCII characters translated from morse code

UBC Insight (Web app for querying UBC data) GROUP PROJECT

Jan. 2017 - Apr. 2017 *Vancouver, Canada*

- Created a web app (front and back end) to query and display a database of classes and rooms at UBC
- Implemented a query parser, validation, scheduling algorithm, and front end interface for working with query language

Engineering Physics Robot Competition GROUP PROJECT - SOFTWARE LEAD

Jul. 2015 - Aug. 2015 *Vancouver, Canada*

- Designed and built an autonomous robot designed to pick up and transport stuffed animals for a competition
- Achieved 3rd place and received the highest grade for our product from an extremely competitive pool of 16 teams

Youtube Java Tutorials PERSONAL PROJECT

Nov. 2010 *Amsterdam, Netherlands*

- Created a series of introductory tutorials for learning Java, and very basic Java syntax. The videos have amassed 33,000 views and a lot of positive feedback

Education

University of British Columbia B.SC. IN COMPUTER SCIENCE AND PHYSICS

Sept. 2013 - present *Vancouver, Canada*

- Science One (Physics, Chemistry, Biology, and Mathematics)
- Engineering Physics (Electrical, Mechanical, and Computer Engineering. Fundamentals of mathematics and physics including Probability, Statistics, applied PDEs, Linear Algebra, Control theory, Thermodynamics, Quantum Mechanics, and Electromagnetism)
- Computer Science (Scientific Computing, Data structures, Algorithm analysis, Software Engineering, and Machine Learning)

International School of Amsterdam FULL IB DIPLOMA

Sept 2008 - Jun 2013 *Amsterdam, Netherlands*

- Final score of 38/45, HL Maths, Physics, Chemistry