Emil Johansson

Student at Lund University
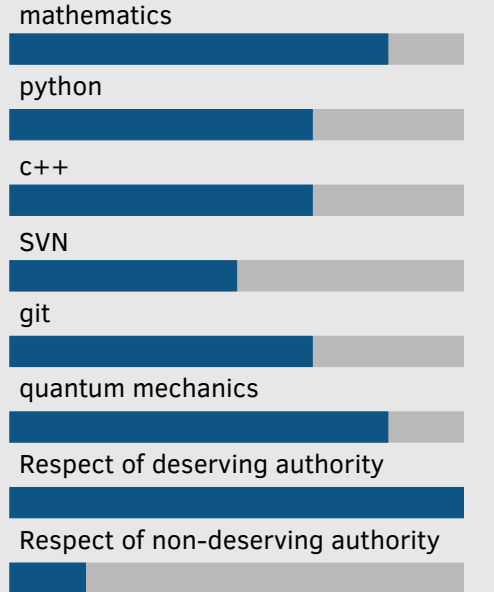
- 22 August 1994
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About me

Mathematical Physicist with a passion for Software Engineering. I hope to find a position combining mathematics software engineering.

Favorite language: c++ | Least favorite language: Matlab | Favorite editor: Emacs

Skill

- mathematics
- python
- c++
- SVN
- git
- quantum mechanics
- Respect of deserving authority
- Respect of non-deserving authority

(*)[The skill scale is from 0 (Fundamental Awareness) to 6 (Expert).]

interests

My interests include but are not limited to; programming and software development, numerical methods and approximation, and quantum mechanics and quantum field theory. I also have and interest in the software side of robotics and automation.

In my spare time I like to travel, work on my programming projects and tinker with computers. An example is Raspberry Pi that is running on top of my closet as a home server or tinkering with my laptop running GNU/Linux. Much of my programming skills are due to learning in my spare time.

education

since 2016	M.Sc. Majoring in Physics	Lund University
2013-2016	B.Sc. Majoring in Physics	Lund University
2010-2013	High school Specializing in natural sciences.	Haganässkolan, Älmhult

publications

2016	Numerical simulations of contact geometry effects on transport properties of semiconductor nanowires: Bachelor thesis work at the department of mathematical physics.

awards

2013	Swedish Junior Water Prize: Award for my high school graduation project investigating presence of lead in garden hoses.

experience

2015	Sudoku solver	ios-application
	A side project besides my studies to learn about UI programming and deployment to ios-devices. (No longer maintained)	
2017	Silly Walks	Artificial neural network
	A side project besides my studies to learn about code re-usability, software design, artificial intelligence and the c++ language. Initially started as part of the Sudoku Solver app to import a Sudoku with the camera. (Work in progress)	

other information

Born in the small town of Älmhult in Småland, moved to study physics at Lund University in 2013.

The goal of my studies at Lund University is to train my ability to learn independently, not to memorize facts and formulas. In an ever changing world, the ability to quickly comprehend and analyze is more important than ever. My grades are not spectacular as I never really study specifically to pass exams, but to understand the subject. However, I have not to this day failed an exam.

In ten years I see myself as the specialist, the guy to ask when there is a problem in my area of expertise. I enjoy investigating abstract constructions in depth using mathematics to understand them. Although I am not sure I want to be that person my entire career. Eventually I want to develop the expertise to maybe start my own enterprise or take more of a leadership role.