## LUKAS PETERSSON

**ENGINEERING STUDENT AND HOBBYIST** 

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# Java Python C++ Web Full-stack Machine Learning Algorithms Physics Mathematics

### EDUCATION —

OBJECTIVE —

### M.SC. ENGINEERING PHYSICS

Lund University | Aug 2019 - May 2024

- GPA 4.0 / 4
- Highest ranked university in Sweden
- Physics, Applied Math, Computer Science

### M.SC. ENGINEERING MATHEMATICS

Lund University | Aug 2019 - May 2024

- GPA 4.0 / 4
- Double degree
- Applied/Theoretical Math, Computer Science

# PROJECTS & COMPETITIONS—PROGRAMMING COMPETITION

NCPC | 2020

- Finished top 5 of all Swedish teams the Nordic ICPC qualifiers
- This was achieved with a 2-man team even though the team size should be 3!

### **MACHINE LEARNING PROJECT**

CommaAl speed challenge | 2021

- Predicting the speed of a car with CNNs and optical flow calculations, using TensorFlow
- Achieved a MSE score of 3, was offered a position

### **ANDROID DEVELOPMENT**

BookLog, Falling Kitten and more | 2018 - Present

- Published 3 apps on Play Store
- Developed and pitched a business solution for senior executives at Axfood. Was offered a position
- Made me fall in love with programming

### PROFESSIONAL EXPERIENCE—

### FLIGHT SOFTWARE SYSTEMS INTERN

European Space Agency | May 2021 - Sep 2021

- Implementing a syntax/sematic validator for a lowlevel language using modeling tools and Java
- Significant improvement on existing technology
- Paper publication and presentation for 2 conferences

### **IT CONSULTANT**

Lunicore | Nov 2019 - Jan 2021

- Helped small businesses digitalize by building full-stack websites and tools
- Agile approach in dialogue with the customer

### **SOFTWARE DEVELOPER INTERN**

Ericsson | Jan 2019 - May 2019

- Improved internal communication by creating a real-time file sharing web application with ReactJS
- Built an improved Android phone app with Kotlin
- Insight into how huge global companies operates

### JUNIOR ROBOTICS SOFTWARE DEVELOPER

Digital Edge | Nov 2018 - Jul 2019

- Developed a big part of the robotic software which would become the start-up's specialization
- Enhanced robot-human interactions by building user friendly interfaces and implementing facial recognition and speech-to-text libraries
- Outside the box thinking when implementing an Android solution for the robot's microphone

### VOLUNTEER & INVOLVEMENT—

### **SELF-DRIVING ENGINEER**

Lund Formula Student | Aug 2021 - Present

- Using ML and Control theory to make Sweden's best Formula Student car self-driven
- Building a map of the track with CNNs and SLAM. Using PD-controllers for control

### **FLY A ROCKET! PARTICIPANT**

European Space Agency | Nov 2020 - Oct 2021

- Selected as one out of 24 students from Europe
- Hands-on rocket science course

### **GOOGLE GET AHEAD PARTICIPANT**

Google | Jul 2021 - Aug 2021

Selected to participate in an algorithm course

### **SHAOLIN KUNG FU STUDENT**

YunTai Martial Arts School | Jul 2019 - Aug 2019

• Alone in China on intense training camp for 6 weeks

### HOBBIES-

Running | Philosophy | Math | Pink Floyd