

Jonathan Allgurén

Automation and Mechatronics Engineering Student

Chalmers University of Technology

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Education

Automation and Mechatronics Engineering

2023 – 2028

Chalmers University of Technology

Gothenburg, Sweden

M.Sc. programme focusing on automation, control systems, mathematics, programming and mechatronics.

Berzeliusskolan

2019 – 2022

Specialization: Technology

Linköping, Sweden

Folkungaskolan

2016 – 2019

Specialization: Science

Linköping, Sweden

All Saints High School

2015

Ottawa, Canada

George Vanier Catholic School

2015

Ottawa, Canada

Experience

Alarm Operator

2022 —

[Verisure](#)

Monitoring and managing alarms, ensuring rapid response and escalation during incidents. Working alongside amazing colleagues in a close-knit team.

Summer Intern

Summer 2022

[Saab AB Dynamics](#)

Linköping, Sweden

Summer position at Saab Dynamics working on a technical project and engineering tasks alongside M.Sc. students — as a high school student.

Projects

Bachelor's Thesis — Model Hydropower Plant

2026

[Chalmers University of Technology](#) — MMSX21 VT26

Design, 3D printing and testing of a pumped-storage hydropower model. Hydraulics, CAD, CFD and experimental verification.

Diploma Thesis — Hexacopter Drone

2022

[Berzeliusskolan](#)

Investigation, construction and flight of a drone. Designed and built a hexacopter drone capable of self-balancing in flight. In-depth analysis of component functionality, electronics design, flight controller programming and consideration of magnetic fields. Diploma and scholarship for innovative thesis work.

Interests

Programming • Automation • Machine Learning • Control Systems • Web Development

Courses at Chalmers

Year 1

MVE605	Introductory Mathematics
SSY331	Introduction to Automation and Mechatronics
DAT425	Introduction to Programming
TMV139	Single Variable Calculus
SEE055	Electrical Circuits
MVE610	Linear Algebra
MMS135	Mechanics 1
DAT430	Fundamentals of Computer Engineering
EDA488	Machine-Oriented Programming
MVE615	Multivariable Calculus

Year 2

MMS215	Mechanics 2
DAT525	Data Structures and Algorithms
EEN150	Intelligent Automation
MVE091	Mathematical Statistics
SEE100	Measurement Technology
SSY043	Signals and Systems
EEN155	Electrical Drive Systems and Fields
IMS085	Simulation and Optimization of Sustainable Production Systems
SSY052	Control Engineering
LMU450	Economics and Organization

Year 3

EEN220	Systems Design
EEN175	Introduction to Machine Learning
TDA384	Principles of Concurrent Programming
SJO955	Introduction to Law
TDA357	Databases
TEK571	Ethics in Technology
MMSX21	Bachelor's Thesis — Mechanics and Maritime Sciences

Courses at Berzeliuskolan

ELEELR0	Electronics and Microcomputer Technology
ENGENG05	English 5
ENGENG06	English 6
ENGENG07	English 7
ENTENR0	Entrepreneurship
FYSFYS01a	Physics 1a
FYSFYS02	Physics 2
HISHIS1a1	History 1a1
IDRIDR01	Physical Education and Health 1
KEMKEM01	Chemistry 1
MATMAT01c	Mathematics 1c
MATMAT02c	Mathematics 2c
MATMAT03c	Mathematics 3c
MATMAT04	Mathematics 4
MATMAT05	Mathematics 5
PRRPRR01	Programming 1
RELREL01	Religion 1
SAMSAM01b	Social Studies 1b
SVESVE01	Swedish 1
SVESVE02	Swedish 2
SVESVE03	Swedish 3
TEKTEK00S	Technology — Specialization
TEKTEK01	Technology 1
TEKTEK02	Technology 2
GYARTE	Diploma Thesis