

Martin Söderén

Master of Science in Computer Science and Engineering

contact

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languages

Swedish - mother tongue
English - fluent
German - basic
French - basic

programming

C
C++
Python
Java
L^AT_EX

Interests

Programming, open source, hardware, electronics, parallel programming, clusters, HPC, algorithms, Linux, 3D design, milling, lathing, welding, snowboarding and motorcycles.

Education

| | | |
|-----------|---|-----------------------------------|
| 2011–Now | M.Sc in Computer Science and Engineering | Linköping University |
| 2009–2010 | Engineering preparatory year | KTH Royal Institute of Technology |
| 2006–2009 | Social studies with major in economics | Blackebergs gymnasium |

Experience

| | | |
|------------|---|-----------------|
| 2016–2017 | CERN, Geneva Technical student | Student program |
| 08–12 2016 | Linköping University, Linköping Software developer for AIICS | Summer job |
| 08–12 2015 | | |
| 08–12 2014 | Linköping University, Linköping Course assistant in Perspectives in Computer Science and Computer Engineering | Part time |
| 06–08 2015 | SAAB, Linköping Software developer | Summer job |
| 06–08 2015 | | |
| 06–08 2014 | Linköping University, Linköping Software developer | Summer job |
| 11–12 2014 | Linköping University, Linköping Course assistant in Introduction to design and product development | Part time |
| 06–08 2014 | | |
| 06–08 2013 | | |
| 06–08 2011 | Silex Microsystems, Stockholm Process operator working with photolithography | Summer job |
| 2008–2011 | Statoil, Stockholm Shop assistant | Part time |

Activities

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|-----------|--|----------------------|
| 2014–2015 | M-verkstan Auditor | Linköping University |
| 2012–2013 | Elith Racing(now LiU Formula Student) Vice President | Linköping University |
| 2011–2013 | Elith Racing(now LiU Formula Student) Head of electronics division | Linköping University |
| 2011–2013 | M-verkstan Accountant | Linköping University |

Publications

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|------------|---|-----------------|
| 03-09 2017 | CERN, Geneve Online Transverse Beam Instability Detection in the LHC High-Throughput Real-Time Parallel Data Analysis | Master thesis |
| 03-05 2017 | CERN, Geneve Usage of the Transverse Damper Observation Box for High Sampling Rate Transverse Position Data in the LHC | IPAC paper |
| 03-05 2017 | CERN, Geneve Online Bunch by Bunch Transverse Instability Detection in LHC | IPAC paper |
| 01-05 2015 | SAAB, Linköping Development of a quadratic programming solver for model predictive control | Bachelor thesis |

Private Projects

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|------------|---|
| 06-09 2017 | DataVisualizer Real-time plotting library which uses the new Vulkan API |
| 04-09 2017 | ConcurrentDataSharer Publish-subscribe pattern middleware for easy data sharing |
| 01-06 2017 | VideoEditor Video editor that is based purely on Python scripting |
| 01-06 2016 | FPGAComputer Complete computer implemented in VHDL |
| 01-06 2016 | 3DFileManager A 3D file manager implemented in OpenGL |
| 08-12 2015 | physM Easy to use physics engine implemented in Python |
| 08-12 2015 | matLib A barebone matrix/vector library |