

Curriculum Vitae

- 1. **Family name** Lidén
- 2. **First names** Tomas
- 3. **Date of birth** 1961
- 4. **Nationality** Swedish
- 5. **Civil status** Married, 1 child



6. Education

Institution	Royal Institute of Technology, Stockholm
Date:	1986
Degree(s) or Diploma obtained	Master of Science, Mechanical Engineering

7. Language skills

Language	Reading	Speaking	Writing
English	high	high	high
French	low	low	low
German	low	low	low

8. Membership of professional bodies

SweConsNet: the Network for Sweden-based researchers and practitioners of Constraint programming

9. Other skills

10. Present position

Senior Consultant, Transrail Sweden AB

11. Years with the firm

Employed 2009

12. Key qualifications

- Optimization, scheduling
- Planning systems
- Analysis, investigations
- Process reengineering
- System development
- System maintenance
- Signalling systems
- Simulation

13. Foreign Countries professionally visited

Country	Time
Danmark	Occasionally 2005-2008
Germany	Occasionally 2004, 2008
Netherlands	Occasionally 2003
Spain	Occasionally 2001-2002
USA, Canada, rest of Europe	Conferences

14. Professional Experience Record

General (not full time):

System development	20 years
Railway applications	22 years
Algorithms (optimization, simulation)	17 years
Signalling systems	7 years
First line manager	3 years
R&D planning, product strategies	3 years
System maintenance	13 years
Technical sales support	8 years

Date: 2009 -
Location: Stockholm, Sweden
Company: Transrail Sweden AB

Transrail is a professional firm, with the prime objective to provide systems engineering services and advice on technical strategies in the transport sector, especially the railway sector. The company was started in 1995.

Position: Senior Consultant

2009-

CATO – Computer Aided Train Operation
(Trafikverket, LKAB, ATrain)

2011

Locomotive planning: planning process and requirements on new IT system (GreenCargo)

2010

Dynamic train plan for iron ore traffic: pre-study of process and system support (LKAB)

2009

Investigation of timetable and train need when buying new trains (C30) for the Stockholm underground. (SL)

Date: 2000 – 2009
Location: Stockholm, Sweden
Company: Carmen Systems / Jeppesen

Jeppesen Systems provides personnel- and vehicle optimization based planning tools for the transportation industry.

Position: Senior Consultant

2005-2009

Design, architecture and implementation of optimization algorithms for rail fleet planning. (DSB)

2004-2005

Business process reengineering study for the crew planning process. (Lufthansa)

2005-2009

Design of a new optimization algorithm for finding optimal motion profiles for trains in the CATO system. (Transrail)

2003

Business study regarding Manpower Planning for airline cabin crew. (KLM)

2001-2002

Modelling, design, implementation and delivery

of a crew group construction module. (Iberia)

2000-2009

Maintenance and further development of the empty freight car distribution system Vadis. (GreenCargo)

Date: 1994 – 2000
Location: Stockholm, Sweden
Company: ABB Signal / ADtranz Signal

ADtranz develops and deliver computerised interlocking and onboard systems for railways.

Position: Manager, object controller development (1998-2000)

Description: Responsible for a group of 20 people developing embedded systems that control wayside equipment (signals, switches etc)

Position: System manager, interlocking development (1994-1998)

Description: System coordination, product strategies and R&D planning. Overall release planning. Main technical contact for Banverket.

Date: 1986 – 1994
Location: Stockholm, Sverige
Company: SIKOB / ÅF-Industri teknik

ÅF-Industri teknik provide technical consultants for manufacturing and transportation companies.

Position: Consultant, assistant manager

Description: Calculations and investigations. Structural mechanics, capacity studies etc.

1989-1994

Development of the train traffic simulation system SIMON/TTS and the runtime calculation program GTP/GTK for Banverket. Capacity studies for Banverket and SL. Investigation of traffic capacity with a new signalling system for the Stockholm underground.

15. Others

Selection of Courses/Certificates:

2003

Optimization in practice and industry. Distance course, Linköping Institute of Technology. 5 p.

1998

Communication and leadership. Dale Carnegie.

1998

Specialist engineer, signalling systems