

# Curriculum Vitae (CV)



**Name:** Thomas Kunze  
**Year of birth** 1961-01-26

## Education

1981 Engineering, machine technology 4-year, Jönköping  
1977 Elementary school, Huskvarna

**Language** Swedish & English  
(German)

## History of Positions

2006- KEN Interior Modules, System Manager, Kalmar  
1994-2006 Bombardier Transportation, System Engineer, Kalmar  
1986-1994 Rejlers, Engineering Consultancy, Kalmar  
1984-1986 JMP Design bureau AB, Engineering Consultancy, Gothenburg  
1983-1984 Statens Vattenfallsverk, Engineering Design, Stockholm  
1980-1983 OK Gasolin station, Customer Assistance/Service, Huskvarna

## Reference of work

### 2006- **KEN Interior Module**

Start up own business during turn off of Bombardier Transportation in Kalmar the year 2005/2006. KEN is a network configuration between 3 companies, **Kalmar Engineering Network** and I running the Interior Module part.

Consulting service in vehicle industry in areas as:  
Toilet module, interior doors, catering, lift and several of interiors modules in interior environment.

- Technical Requirement Specification
- Investigations
- Test Procedures / Records
- Supplier contacts
- System descriptions / Function description
- Customer contact
- Design processing
- Documentation
- Coordination of different team in a project



Reference projects:

**SL, C30, Trafikförvaltningen**

Specialist support acting team leader for C30 Interior- ergonomics area; including HVAC, availability, drivers cab, lighting, ergonomic, fire safety. Also participate in the industry design core team during procurement phase of C30 metro.

September 2013 – contracted to 2019

**Interfleet Technology AB (Malmö)**

Technical assistance for upgrade of the Toilet system in Öresundstrain.  
January 2012- February 2012

**Bombardier Transportation Sweden AB (Västerås)**

Technical assistance for system Door (outer) and Toilet in a new Swedish Regional Train, Regina RFV, supporting RFT project with Toilet and interior doors, located on Bombardier Västerås site.

June 2011- June 2012

System responsible for Interior doors in RFV

May 2012 –October 2012

Supporting X55 (SJ3000), open issues galley and Bistro

October 2012

**SJ, Swedish Railway**

Investigation of X40 toilet system in front of an upgrade of this area.

Investigation of systematic problems for claims and make proposal of systematic upgrades to improve the capacity of the toilets system.

March 2011 – June 2011

**SL, Stockholm Local traffic**

Specialist support acting team leader C30 Interior areas; HVAC, availability, drivers cab, Lighting, General requirement, Industrial design, Ergonomic, during procurement phase.

March 2011 – August 2013

**SL, Stockholm Local traffic**

Specialist support in an evaluation team for interior and lighting of a tender, Stockholm metro

August 2010 – March 2011

**SJ, Swedish Railway**

Investigation of X2000 pantry, for an upgrade of this area. Investigation of condensation and water system. Pantry prototype for evaluation.

July 2010 – February 2011

**Bombardier Transportation Sweden AB (Västerås)**

Technical system manager with assistance for the interior architecture/interior system in a new Swedish Intercity Train, X55 (SJ3000), located on Bombardier Västerås site, Västerås

April 2008 – August 2010

**Euromaint AB (Malmö)**

Technical project manager with assistance for the areas interior/mechanical/steel in a refurbishment project for NSB, class 7 upgrade, located on Euromaint Malmö site.

November 2006 – April 2008



**Euromaint AB (Malmö)**

*Investigations report regarding Bio-reactor and alternative retention tank system onboard trains from the technical, environment and economic perspective.  
October 2006 – November 2006*

**Hörmann Funkwerk Kölleda GmbH**

*Installation engineering project for GSM-R installation on the Arlanda Express trains. The main tasks were inspection of the existing NMT and short-wave train radio system at Arlanda Express workshop. Mechanical construction of demounting and mounting of the existing train radio system to the new GSM-R train radio system. Write installation documentation. Design of mechanical fittings and tooling templates. Supervisor during prototype installation at A-Train site.*

*May 2006 – September 2006.*



## 1994-2006 **Bombardier Transportation (BT), Kalmar**

*Employed by ABB Traction AB (present BT) in Kalmar to be system responsible for the work with Interior Modules*

*2001 - 2005 System Engineer/Kalmar*

*Reporting to the Technical Project Manager in different projects and Line Manager.*

### *Responsibility:*

- *To provide technical support in bidding procedure*
- *Interpret customer specifications and elaborate technical system requirement specifications during purchasing process in projects.*
- *Evaluate system supplier quotations*
- *Provide technical support to responsible system purchaser from concept phase to finally implementation of the system*
- *Define mechanical, electrical and functional interface to other system in the train, especially to the train computer system, the passenger areas and the cabs*
- *Supervise and approve FAI (First Article Inspection), FAT (Factory Acceptance Test) and SAT (Site Acceptance Test)*
- *Participate and support during commissioning*
- *To elaborate, plan, supervise and accept system Type Tests (stand still and line test)*
- *Provide technical support to the quality responsible*
- *Responsible for ensuring projects are completed successfully with the following systems: toilets, interior doors, catering systems, etc*
- *Liaison with Suppliers for all the above systems to ensure the right technical solution is implemented.*
- *Liaison with Clients in terms of technical solutions, time scales and budgets.*
- *Providing ad hoc solutions to problems.*

### *Knowledge of the following Sub-systems:*

- *Waste Water.*
- *Fresh Water Supply.*
- *Toilets.*
- *Interior Doors.*
- *Catering.*
- *Lift*
- *Public Interiors*

### *Interior Module Experience:*

- *Furniture, Staff compartment, luggage racks, vestibules, walls, floors, safety equipment and layout work etc.*

### *Reference projects:*

- *X32K Staff compartment, catering compartment, partition glass walls and luggage stack (Coast to Coast train, Kalmar-Gothenburg, a upgraded Oresund train)*
- *X11, X12 offers toilets, service centre staff. (old local trains)*
- *CHE Toilet system, Toilet cabinet, Bistro specification, Water boiler – 2005 (in China), (New fast train on the Chinese market, with both Chinese and European standard)*



- CHE Principle phase, Supplier evaluation, Detail support in China → ToT
- Offers X2000 catering and toilet refurbishing project. (Swedish high speed train)
- PDC (Product Development Centre) for Europe new fast train (including Trenitalia offer), water system, toilets and catering. (in Henningsdorf). (Development centre for European new very high speed trains)
- RIO C2008 for China (toilets) -2004 (Tender project for China, later CHE)
- RIO warranty (toilets, interior doors) –2004 (Swedish local train family)
- ToT (Transfer of Technology to Vasteras and Germany) -2005

1999 - 2001 Engineering / System Manager Interior Module  
Reported to the Technical Project Manager in different Projects and Line Manager, with a direct staff accountability of circa 4.

Responsibilities:

- Prepared offers such as GTA, X40, X32K, (C-Ten). (Danish good train for all, Stockholm city local train, Coast to Coast, development project for high speed train)
- Completed optional work orders for OTU and RIO. (Oresund train and local Swedish trains)

Held responsibility for systems such as toilets, interior door, catering, lift, compartments, safety equipment, paper bins, notice board, partition walls, luggage stack, modules, vestibules and interior car ends.

1994 – 1999 Engineering / Interior Design  
Reporting to the Technical Project Manager in different projects and Line Manager.

Responsibilities:

- Completed HSE, System Manager interiors. (Development project)
- FPT (XT, IC), Gardemoen responsible for the toilet system. (in Norway). (Airport shuttle Gardemoen-Oslo).
- Completed AIM, interior modules. (Development project for/to OUT)
- Completed OTU, System Manager interior modules.(Oresund train)

Held responsibility for systems such as toilets, interior door, lift, compartments, safety equipment, paper bins, notice board, floor, partition walls, vestibules and interior car ends.

## 1986-1994 **Rejlers, consulting agency, Kalmar**

Employed by Rejlers in Kalmar to be responsible for mechanical constructions.

Site Manager of the sites mechanicals project, responsibility of 2-4 people.  
Site Manager (pro tempore 1990 – 1991), responsibility of 20 –25 people and all projects in Kalmar.

Budget, marketing, locality and technical solutions.

Completed projects for the following Companies:

Bombardier Transportation – ABB Kalmar Trains (1990 – 1994)  
Designer (1993 – 1994)

– Designed the X2-2 Interior Structure Specification and the X2-2 Pantry Design. (X2000 train for Coast to Coast)

Project Manager / Designer (1990 – 1992)



- Project managed the rationalisation on X2000, leading 10 – 15 people.
- Completed checks on the items for rationalisation on a regular basis.
- Held responsibility for the offer for rebuilding, structure specifications, layout works to X2 Finland and X2 Portugal, conference compartment and glass partitions.

*IKEA of Sweden (1990)*

*Designer*

- Completed changing work on drawings (department gardening)

*Saab-Scania Compitech-elektronik (1990)*

*Designer*

- Designed EVS 600, made specifications and drawings for production (sorting machine for package delivery, post office in USA)

*Bombardier Transportation – Kalmar Verkstad (1986 – 1989)*

*Designer Interior Team*

- Completed restaurant car R4, X15:4 (test train for X2000) and X2000 project.
- Implemented layouts, detailed drawings, system description and mock-ups.
- Acted as a Contract Man between Design and Production.

**1984-1986 JMP Design bureau AB, consulting agency, Gothenburg**

*Employed by JMP in Gothenburg as designer. The company was later integrated with Allmänna Ingenjörbyrå (AIB).*

*Completed projects for the following Companies:*

*Volvo Passenger Coach*

- Division Interior Climate. Completed design air-ducts for 760, 1988.
- Testing and evaluation of climate system (air-ducts).

**1983-1984 Vattenfall, Stockholm**

*Employed by Statens Vattenfallverk (present Vattenfall) in Stockholm as Engineer.*

*Responsibilities:*

- Designed power-line pylon in steel, for 70-400kV.

**1980-1983 OK Gasolin station, Huskvarna**

*Employed by OK (present Preem) in Huskvarna during my school and military duty period as temporary assignment.*

*Responsibilities:*

- Worked within the service staff team for the shop
- Workshop, anti-corrosive treatment



## 1981-1982 **Army, Eksjö**

*Military duty:*

*Responsibilities:*

*Head of group responsibility of 7 people, GRG-group*

### **Practical experience**

*Industrial technique*

- General machine construction (steel, plastic, wood, and rubber).*
- Structural strength calculation*
- Project management, Technical requirement specification, Supplier evaluation, Supplier follow-ups, Fault searching/analyses, Type test, Customer documentation, Customer education*
- Communication – internal and external*
- International experience*

### **It-knowledge**

- MS-Office*
- Lotus Notes*
- Auto-CAD*

### **Training within industry**

*Windchill project -link, -viewer (Devellum) 2006*

*Start a company (Almi) 2005*

*EMC course (BT) 2005*

*Six Sigma Analyst 1 (BT) 2002*

*BVF 050, F 04:06, EL-SÅKF AVD C (Trafficare) 2002*

*Design education (KTH 10p) 1996*

*Design in plastic (STF) 1995*

*MekCAD (Ferator) 1992*

*Pro Engineer (CAD)*

*Projekt management (Rejlers) 1988*

*CAD-Autotrol-3D (VTC-Syd) 1987*

*CAD-Autotrol (VTC Syd) 1987*

*CADAM (Caran AB) 1985*

*Drawing course (Volvo PV) 1985*

*Structural strength calculation (SIFU) 1984*

*Welding course (Svetskommisionen och Svetstekniska Föreningen) 1984*



## **Summary**

*A summary of the areas where I have high experience and knowledge which I have acquired in my profession during the years are:*

*Public interiors areas, cab areas, interior systems and interior modules on mobile grounds.*

*Interior modules:*

*Layouts regarding to public flow*

*Vestibule areas, passenger areas, several of interiors as:*

*Floors, walls, ceilings, partition walls, chairs, interior fittings, safety equipment, storage modules, communication centres, working areas, staff areas, luggage racks, locking system, etc*

*Interior system:*

*Definition of system is an area as have communication:*

*Catering (bistro) modules, toilet modules, disable lifts, vehicle water and sanitary system, freeze emptying system, internal and exterior doors.*

*Establish material analyses, reports, interface documents, technical specification, functional specification, supplier evaluation analyses and function test procedures etc.*

*I worked as project leader on above areas, responsible to line manager and the main technical project leader for the project.*

## **Some personal facts**

*I am simple, open and extrovert person. Married with Marita since 1989 and have together with her raised four children, biologic father of two of these. We are living on the country side in a house south of Kalmar in Tvärskog. The spare time goes for the house, children and grandchildren activity.*

*I take big sense of responsibility for things I am doing. My reputations are to be focused and loyal with a good overview. I have also a good talent to find new directions and new solutions for problems.*

*With my broad knowledge and wide expanse of experience, I can definitely contribute in the assurance to optimum of solutions within given frames. I am very open – minded and willing to learn new experiences.*

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