

## CURRICULUM VITAE

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| <b>NAME:</b>            | Dr. Mart Heerschap   |
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| <b>E-mail</b>           | <a href="mailto:mart@airframedesigns.com">mart@airframedesigns.com</a> |
| <b>DISCIPLINE :</b>     | Consultant Engineer  |
| <b>DATE OF BIRTH :</b>  | 10 January 1966  |
| <b>NATIONALITY :</b>    | Dutch  |
| <b>QUALIFICATIONS :</b> | PhD, MSc, Aeronautical Engineering                                     |

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| <b>WORK EXPERIENCE :</b> | <p>17 years of engineering consultancy experience across several industries / sectors (aerospace, automotive, packaging, off-shore, process industry, civil engineering).</p> <p>Specialist in Finite Element (FE) analysis simulations for birdstrike, production processes, impacts, crashes and explosions.</p> <p>Spent 5 years with MSC as a software development / lead engineer for the DYTRAN and PATRAN programs.</p> <p>Extensive project management experience through owning/directing MG Technical Solutions consultancy (<a href="http://www.mgts.nl">www.mgts.nl</a>)</p> |
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## Experience in Date Order

**2001-Present**

**Director/Owner of MGts  
Waddinxveen, The Netherlands**

Supervised all projects for MG technical solutions from proposal generation through to delivery of technical reports. MGts works with clients across several industries / sectors (aerospace, automotive, packaging, off-shore, process industry, civil engineering.

Major clients include: ALCOA Europe BV, Stork AESP BV, GN Rope Fittings. Projects included: simulation of birdstrikes on the NH90 military helicopter; simulation and analysis of production processes relating to the manufacture of GLARE (composite aluminium / glass) panels for the Airbus A380 passenger aircraft; trouble-shooting on the post-buckled behaviour of A340 & A380 J-Nose structure using the NASTRAN solver; impact analysis on aircraft floor structures.

Arranged the out-sourcing of several projects.

Developed and presented several courses on finite elements (FE) in the aerospace industry.

**1999-2001**

**MSC Software BV  
Gouda, The Netherlands**

Development Engineer: contributed to the development of MSC.DYTRAN and MSC.PATRAN.

MSC.PATRAN is an industry standard for pre and post-processing finite element (FE) models.

MSC.DYTRAN is an explicit FE code that analyses the interaction of structure and fluid dynamics.

Typical application areas: crash, drop tests, explosion, airbags, impact, birdstrike.

**1998-1999**

**MSC Software BV  
Gouda, The Netherlands**

Release Manager: responsible for the release of software developments associated with MSC.DYTRAN and MSC.PATRAN.

**1996-1998**

**MSC Software BV  
Gouda, The Netherlands**

Project Leader: responsible for leading software developments associated with MSC.DYTRAN and MSC.PATRAN.

Provided a consultancy capability for several clients (Unilever, Nokia, Lego, Alcoa, Stork).

Provided support and trouble shooting capability for various international MSC Software offices across various consultancy projects.

**1989-1995**

**Self-Employed Consultant  
The Netherlands**

Designed and stressed instrument racks and external modifications for a Cessna Citation laboratory aircraft.

**1989-1995**

**PhD Student  
Technical University DELFT  
The Netherlands**

Conducted studies into structural optimisation in combination with finite element analysis. Developed a fully automated program to analyse cut-outs in pressurised fuselages. Code written using PCL language embedded in MSC.PATRAN.