

## CURRICULUM VITAE - JOUKO TOLONEN

Residential address: Information removed for security reasons  
Postal address: Information removed for security reasons  
Telephone: +358 44 736 7224 (Cell)  
Fax: 086 669 2710 (South Africa only)  
Skype: joukot  
MSN Messenger: jouko@jat.co.za  
E mail: [jouko@jat.co.za](mailto:jouko@jat.co.za)  
Web page: [www.jat.co.za](http://www.jat.co.za)

### PERSONAL DETAILS

Surname: Tolonen  
First names: Jouko Antero  
Sex: male  
ID-number: Information removed for security reasons  
Date of Birth: 1956  
Marital status: divorced with two children  
Nationality: Finnish, South African  
Home language: English/Finnish  
Other languages: English (speak, read and write)  
Military commitments: none (Lieutenant in Finnish army)  
Criminal record: no  
Driver's licence: yes, codes A and EB (Bike and car)  
Health: excellent



### REGISTRATIONS

Eur Ing Reg No 24701  
Chartered Engineer Reg No 584000

### MEMBERSHIPS

Institution of Mechanical Engineers, Member No 80092923  
The Nuclear Institute (SA Branch)  
Finnish Association of Graduate Engineers

### EDUCATION

#### University attended:

University of Oulu, Oulu, Finland  
Degree obtained: **MASTER OF SCIENCE IN ENGINEERING (MSc)** in 1983  
Main subjects: Physical Metallurgy, Corrosion Protection and Mathematics. (On request a translation of the Diploma is available with the full list of subjects and marks awarded.)

#### Technical College attended:

Technical College of Jyväskylä, Jyväskylä, Finland  
Degree obtained: **BACHELOR OF SCIENCE (BSc)** in 1980  
Main subjects: Material Strength Technology and their Application to Machine Elements, Raw Material Technology, Quality Control and Welding  
Marks awarded: My average of the marks in the Diploma was 9.54 (95.4%) (max 10, class' average 7.26), which is one of the highest ever awarded in my College.  
Special awards: Two scholarships because of excellent marks  
Note: Technical Colleges in Finland are institutions for full time studies and the degrees are recognised as BSc in Engineering.

#### Last school attended:

Merikoski's High School, Oulu, Finland  
Highest standard passed: Matriculated with university exemption in 1975  
Subjects passed: Finnish, English, Swedish, Mathematics, Science (Including Physics,

Chemistry, Biology, History)

Passed with maximum points: Mathematics

**Special courses undertaken:**

Responsible Manager for the use of closed radiation source in Finland. May 2009

Finnish Nation wide Occupational Safety Training August 2008

Finnish Hot Work Licence July 2008

CAESAR II training March 2006

Management Development Diploma, February 1992, issued by SA Management School of Business. This course included 3 weeks of full time lecturing in Leadership, Finance, Human Resources, Marketing, Strategy, Economics and Production. Additionally extensive assignments were done during and after the lecturing periods.

Diploma in Project Management, September 1991, issued by Executive Education. This course comprises of 40 h lecturing and an individually managed project.

Two day seminar "Creep and Creep Fracture" at WITS University, November 1991. Main lecturers Professor B Wilshire University College, Swansea, Professor F. Nabarro WITS and Dr R C Gifkins CSIRO Australia (ret).

Mannesmann Anlagenbau sent me to Germany in 1989 for one month to be trained by Mannesmann Anlagenbau Gmb in power station maintenance, welding and pipe manufacturing.

**Other training:**

I constantly study of my own initiative. This includes reading engineering literature, learning new computer programs, programming, management, general knowledge and so on. Last major study has been CAESAR II for flexibility analysis.

## **EMPLOYMENT HISTORY**

Name of firm: BHR Hochdruck-Rohrleitungsbau GmbH  
 Address: Olkiluoto Nuclear Power Station Construction Site, Finland  
 Type of firm: Engineering and manufacturing company specializing in design, supply and maintenance of high pressure and special piping in power stations  
 Time of employment: from July 2008 to present  
 Post held: Manager QA/QC OL3-NPP-Finland Site  
 Work Done: Quality Assurance/Quality Control Manager of pipe erection on Olkiluoto Nuclear Power Station Unit 3. Olkiluoto 3 is new generation 1600 MW plant supplied by AREVA/SIEMENS. I am responsible for all quality aspects on site for entire nuclear island pipe installation and for the high pressure lines in the turbine island. Included is also control of the subcontractor's work.

Name of firm: J Tolonen Services cc  
 Address: 1038 Road Number Three, Roodepoort  
 Type of firm: International consulting company specializing in pipework engineering, project handling, erection estimation, compensator designs and programming of high performance computer software especially for the engineering field  
 Time of employment: from May 1999 to present  
 Post held: Owner consultant

**Work Done:** Project handling, estimation, tender preparation, compensator designing, software development, 3D design, flexibility analysis, high pressure and special pipeline maintenance and technical evaluation and general engineering consulting. Industries include pulp and paper, power generation, mining, mineral processing, water treatment and petrochemical.

For 3D plant design I have used over five years CadWorx Pipe and Plant. During 2005 I was nominated as a training officer and I gave training to external parties on this software.

**Special Note:**

In the execution of my work and studies I have always used computers extensively (since 1977). I have now in my personal use several modern PC:s. I develop my own programs, spread sheets, data bases and project plans where and when required. Main commercial programs in my use are Delphi, Excel, Word Perfect, MS Word, Windows, MS Projects, Paradox for Windows, Inventor Pro, AutoCAD, Cadworx Plant Pro, CAESAR II, MathCAD and other design packages.

Partially as a hobby partially as a part of my work I have developed sophisticated commercial quality programs. Main achievements are full accounting package including point of sale, PriceMaster for pipe erection estimation and Bellows Master for compensator design. I have developed all my programs to improve productivity in the areas where I have identified problems.

I consider myself as a professional system developer and programmer capable of designing, developing, managing and coding computer programs and systems. Most people who know me take me as a person who is The Expert in computing including Internet, programming, problem solving and a walking manual for most of the commonly used programs in an office environment.

**Previous experience**

Name of firm: L&C Steinmüller (Africa) (Pty) Ltd.  
 Address: 12 Autumn Street, Rivonia  
 Type of firm: Engineering, design and manufacturing company, specialising in utility and other type of boilers, structural steel, piping etc.  
 Time of employment: from October 1998 to May 1999  
 Post held: Technical Project Manager  
 Main job functions: I was responsible for the engineering, costing, staffing, progress, scheduling and technical information flow between Steinmüller Africa and German parent company for the project Fünen. This is domestic waste incinerator producing 70 t of steam per hour (at 380 C and 67bar). My team consisted of a design engineer, planner, section leader and up to ten draughtsmen and four checkers.  
 Reason for leaving: End of a fixed time contract and wish to try something else after a long time with the same group of companies.

Name of firm: Steinmüller Mining and Piping Systems (Pty) Ltd.  
 Address: 12 Autumn Street, Rivonia  
 Type of firm: Engineering, design and manufacturing company, specialising in mining equipment, compensators, piping, pressure vessels, process heaters and separation equipment. Turnover is approximately 70 million rand.  
 Time of employment: from January 1997 to October 1998  
 Post held: Manager  
 Main job functions: I was the head of the Project/Estimating/Design Department. I had set targets for turnover and profits and I was responsible for my own budget. Included in to my department were our project handling, estimation, expansion bellow design, general product support and draughting. The number of persons reporting to me depended on active contracts and

- workload. In average about 10 people were under my supervision.  
Closing down of engineering, project and estimating departments.
- Reason for leaving:
- Name of employer: Steinmüller Mining and Piping Systems (Pty) Ltd.  
Address: 12 Autumn Street, Rivonia  
Type of firm: Engineering, design and manufacturing, specialising in mining equipment, compensators, piping, pressure vessels, process heaters, separation equipment and ozonisers. Turnover was approximately 100 million rand.
- Time of employment: from January 1995 to December 1996  
Post held: Head - Project Management  
Main job functions: I was the head of our projects department handling our industrial projects. Additionally I did marketing, sales, estimation and project handling.
- Reason for leaving: Promotion and organizational change in the company.
- Name of employer: Steinmüller Mining and Piping Systems (Pty) Ltd. Formerly (until January 1994) Interpipe (Pty) Ltd, S.A. Compensators (Pty) Ltd and Klöckner-Becorit Corporation SA (Pty) Ltd. (Members of L&C Steinmüller Group of Companies). Three companies were combined.
- Address: 12 Autumn Street, Rivonia  
Type of firm: Engineering, design, manufacturing and erection company, specialising in mining equipment, piping, pressure vessels, process heaters, separation equipment, ozonisers and specialist corrosion coatings. Turnover is approximately 100 million rand.
- Time of employment: from January 1994 to December 1994  
Post held: Business Manager  
Main job functions: I was the head of our business unit for Paper, Pulp, Cement, Lime and Sugar industries. I had set targets for turnover and profits and I was responsible for my own budget. I did marketing, sales, estimation and project handling. The number of persons reporting to me depended on active contracts. The manpower included sales, design, engineering, erection and secretarial staff.
- Reason for leaving: Organizational change in the company.
- Name of employer: Interpipe (Pty) Ltd, formerly (until June 1991) Mannesmann Anlagenbau (Pty) Ltd (Member of L&C Steinmüller Group of Companies)
- Address: 12 Autumn Street, Rivonia  
Type of firm: Engineering company specializing in design and maintenance of high pressure piping in power stations, mines, chemical plants etc.  
Post held: Senior Project Engineer - Quality Assurance Manager  
Main job functions: I held two positions concurrently in the company. Firstly I was a Senior Project Engineer. I handled and I was responsible for all the contracts for Grootvlei, Koeberg and Maputo (Mozambique) Power Stations. This work included cost estimation, design, purchasing of material, subcontracting, control of erection, client liaison, reporting etc. I had one full time draughtsman reporting directly to me. Other personnel was seconded as required. This position I held from March 1990 until December 1993.
- Secondly I was the company's Quality Assurance Manager. Approximately half of my work consisted of direct Q.A. work such as review and preparation of quality plans and procedures, auditing, and coordination of inspector's work. The other half was mainly being in assistance for other departments and our contractors in solving welding, design, material and maintenance problems of piping components, pressure vessels, structural steel etc. This position I held from March 1989 until December 1993.
- Reason for leaving: Promoted within the company in to a more responsible job.
- Name of employer: Mannesmann Anlagenbau (Pty) Ltd  
Address: MXM House, Sandton  
Post held: Quality Assurance Manager - Projects from June 1987 to March 1989.  
Main job functions: Review and preparation of quality plans and procedures, auditing, and coordination of inspector's work.

Reason for leaving: Promoted within the company in to a more responsible job.

Name of employer: L&C Steinmüller (Africa) (Pty) Ltd  
 Address (HO) Rivonia Road cnr 11th Ave, Rivonia  
 Post held: Q.A. Coordinator on Kendal Power Station from February 1986 until June 1987.

Main job functions: Review of the quality program through surveillances and audits, preparation of Q.A. procedures, material control and final erection inspections.

Reason for leaving: To advance on my planned career.

Name of employer: L&C Steinmüller (Africa) (Pty) Ltd  
 Address (HO) Rivonia Road cnr 11th Ave, Rivonia  
 Post held: Q.C. inspector on Tutuka Power Station from January 1985 until February 1986.

Main job functions: Inspection of boiler components including boiler, pipework, steel structure, fans, mills etc.

Reason for leaving: Promoted and transferred to Kendal P.S.

Name of employer: L&C Steinmüller (Africa) (Pty) Ltd  
 Address (HO) Rivonia Road cnr 11th Ave, Rivonia  
 Post held: Trainee Q.C. Inspector and Q.A. Engineer at Chamdor Works from July 1984 until December 1984.

Main job functions: Inspection of boiler parts, pipework, steel structure etc. Preparation of Quality Control Plans.

Reason for leaving: Transferred to Tutuka P.S.

### **Experience in Finland**

Name of employer: University of Oulu  
 Address: Linnanmaa, Oulu, Finland  
 Post held: Research assistance from December 1983 until July 1984  
 Main job functions: Design of equipment and computer software for machinability studies  
 Reason for leaving: Immigration to South Africa

Name of employer: Technical College of Jyväskylä  
 Address: Jyväskylä, Finland  
 Post held: Part time computer instructor during my last year of studies.  
 Main job function: Instructing fellow students in the use of computer.

Other experience consists of work done during the holidays. This includes working as a designer and draughtsman for 8 months, quality designer 4 months, quality controller 4 months and military officer 6 months.

Job descriptions and references for the jobs are available on request.

### **GENERAL**

Interests: Problem solving (work, mathematical, design), computer programming, reading and woodwork.