

## Resume of Pero Skoric

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### Summary of Skills:

An engineer with more than 40-years' experience in the power business. Worked with, steam turbines, gas turbines, compressors, pumps and diesels in, conventional power plants, geothermal power plants, oil & gas installations all around the world. Worked in R&D, design, commissioning, construction, start-up, operations and consulting. Experienced control engineer with a lot of successful solutions behind.

### July 2013 – today

#### **Arirang (Croatia)**

Still not out of the turbine world. Cracking some tough nuts around the world with GE and others.

**July 2018 - Petrokemija - Kutina - Croatia / Nitric Acid Plant (1) Power Train - Control System Retrofit Principal Design and commissioning.**  
<http://turbine.arirang.hr/steam-turbine-itcc-retrofit-in-petrokemija-kutina/>

### 2011 – July 2013

#### **Invensys (Singapore)**

##### **(APAC Turbo Machinery Controls Consultant)**

Providing in depth technical consultancy on various APAC TMC projects. Received Invensys Engineering Excellence Award for the PJB Gresik project. Some of the projects he was involved are listed below:

**Taiwan Power Corporation (TPC) – Hsinta - Taiwan / 2 x 500MW Mitsubishi LST - Control System Retrofit.**

*November 2011*

**North Delhi Power Corporation (NDPL) – Delhi - India / 2 x Frame 6B - Control System Retrofit**

*December 2011*

**Power Java & Bali (PJB) – Gresik – Indonesia / 2 x 200 MW Toshiba LST - Control System Retrofit**

*February 2012-March 2013*

**Pertamina – Dumai – Indonesia / 2 x 14 MW Fuji Electric (Siemens) Controlled Induction - System Retrofit**

*March –July 2013*

### 2001 – 2011

#### **PenPower, GTSI, GS – USA (Ireland)**

##### **(Lead Start Up Engineer)**

Start-up Technical Advisor on various **General Electric** Gas/Steam turbine projects around the world. Working with Speedtronic Mark IV, Mark V, Mark VI, Mark VIe and Allen Bradley controllers. Few of his projects are listed below:

**April-July/2011 - Esso, Longford, Australia - Lead Controls TA.**

MKI to MKVIe retrofit. ITTC application with Fr3 driving two compressors at the same shaft. Responsible for turbine and compressor start-up

**July-Dec/2010 - Conoco Philips Immingham, UK - Lead Controls TA.**

Fr9FA MKV to MKVe retrofit with Fr9FA MKVe cooling economizing upgrade. Responsible for equipment installation and units start-up

**Jan-Aug/2009 - Al Tawallah Abu Dhabi, UAE - Lead Start-up TA.**

Two times Fr9E MKVI installation and start-up. Responsible for equipment installation and units start-up

**Aug-Nov/2008 - SSE Keadby, UK - Controls TA.**

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Fr9FA MKV to MKVIe retrofit. Responsible for equipment installation and units start-up of Unit #1.

**Oct-Nov/2006 - e-on, Connah's Quay, UK - Controls TA.**

GTCC Fr9F and Alstom ST. Troubleshooting high CO emission involving live steam temperature matching during GT start-up.

**March-June/2006 -Sonatrach, Kenennda, Algeria - Lead Controls TA.**

Compressor station, Fr3 GT upgrade MkII to MkVI. Responsible for commissioning the upgrade that includes compressor control and protection (ITCC).

**Feb-May/2005 -Marathon Oil, Alba II, Equatorial Guinea - Lead Start-up TA.**

Rotoflow turbo-expander GER265 operated by AB ControlLogix,. Responsible for commissioning the equipment and handing it over to the customer.

**Oct 2004 -ESB Uch Power, Pakistan -Controls TA.**

GTCC Fr9E plus C9 ST. Responsible for troubleshooting the equipment and start-up after a major overhaul.

**Dec 2002 -June 2003 MLNG Bintulu, Malaysia -Start-up TA.**

Power generation of 5\*Fr5 generators at a process train with 2\*Fr7. All MKV. Involved with 2\*Fr7 start-up and responsible for the start-up of Power Generation. Designed and commissioned the interface between MkV and Secondary Load Management System.

**2000 – 2001**

**ENRON – India  
(Turbine Engineer)**

Engineering support during Dabhol II construction.

**1999 – 2000**

**PB Power – New Zealand/Australia  
(Senior Consultant)**

Working for NZ branch of a major international engineering consultancy on various onshore and offshore projects.

Elected to professional associate with PB Power (2000)

**1998 – 1999**

**Magma Nusantara Limited – Indonesia  
(Plant Engineering Manager)**

Owner engineer responsible for design, construction and commissioning of 2 x 110MW Wayang Windu Geothermal Power Plant. The project had that time's world largest geothermal turbine.

Masterminded design and implementation of Integrated Control System. This design has been implemented for the first time in geothermal practice. It integrates the steamfield and the power station maximizing the plant output. The paper presented at the V. World Geothermal Conference, Tokyo 2000.

**1996 - 1998**

**DesignPower NZ – New Zealand/Japan  
(Senior Consultant/Consultant)**

Seconded to MNL as the owner supervisor resident in Fuji Electric Kawasaki, for design and manufacturing of geothermal power plant 2x110MW Wayang Windu.

Wayang Windu geothermal project tenders assessment.

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Risk analyses of Wayang Windu Geothermal Plant using geothermal network simulator (NETSIM). The author of the NETSIM.

Review of Wairakei ILP Project commissioning procedure and witnessing the performance test.

The author of mathematical model for Rotokawa Geothermal Plant (24 MW - ORMAT).

**1994 - 1996**

**Leyland Consultants Ltd. - New Zealand  
(Mechanical Engineer)**

Responsible for design and installation of 4 MW steam turbine for ECNZ Wairakei Geothermal Power Station, using the LP cylinder of a Parsons 60 MW condensing set

Responsible for design and commissioning of 2x3 MW Wairua Falls water turbines governors. The governors were designed and commissioned as a block within the already existing station PLC

**1992 – 1994**

**Turbo-Control - Croatia  
(Self Employed)**

Established a small company for overhauling and tuning Woodward (and others) prime mover governors. Personally overhauled or supervised overhauling of in excess of hundred various governors Woodward UG-8, PG-PL, TG-10 and others.

**1990 – 1992**

**Hamowa (Juting) – Croatia/Turkey  
(Chief Engineer, Department Manager, Project manager)**

Karabuk – Turkey. Responsible for retrofit of the control systems for two 12 MW turbo generators, 11.6 MW turbo blower and two 960 kW turbo pumps in Demir Celik Steelworks. (1991-1992).

Responsible for setting up the contracts, designing the application software and commissioning of several turbine electronic controllers previously developed in Jugoturbina Institute.

**1988 – 1990**

**Jugoturbina Institute – Yugoslavia  
(Project Manager and Chief Engineer)**

The manager and the chief application engineer for “Microprocessor Prime Movers Controller” project. Headed a team of engineers in developing a microprocessor programmable control system that was then applied on various prime movers (steam, gas, water turbines). The author of all the application software applied. The result of that project was 3 steam turbine governors, 2 gas turbine governors and a water turbine governor commissioned.

**1975 – 1988**

**Jugoturbina (Steam Turbine Works) – Yugoslavia  
(Chief Engineer, Chief Commissioning Engineer, Commissioning Engineer, Test Engineer, Assistant Engineer)**

A member of the core management team building a large turbines factory in Karlovac. The factory is now a part of Alstom. Personally managed design and construction of several factory segments as, test department, diagnostic centre, etc. (5 mil \$US budget)

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From 1984 managed Power Plants Diagnosing Centre, introducing that days modern methods and equipment like, data acquisition and control HP217 & HP3054, HBM-UPM 60 and others.

Commissioned a lot of various turbines in many parts of Former Yugoslavia and Europe

### **Teaching Experience :**

Lectured "Steam Turbine Design, Construction and Operating" on Jugoturbina Technical Academy (1987-1988)

### **Publications :**

- Skoric P, Boutot R, Scott J, Iwata A "Wayang Windu Integrated Control System – The Control Concept for Modern Geothermal Plant?" V. World Geothermal Congress, Japan 2000  
[https://pangea.stanford.edu/ERE/db/IGAstandard/record\\_detail.php?id=3963](https://pangea.stanford.edu/ERE/db/IGAstandard/record_detail.php?id=3963)
- Skoric P, "Analysis of the Half Way Rule" 21st NZ Geothermal Workshop 1999;  
<https://www.geothermal-energy.org/pdf/IGAstandard/NZGW/1999/Skoric.pdf>
- Morris G, Huang Y, Skoric P "Analyzing and Predicting the Performance of a Geothermal Gathering System" 18th N.Z. Geothermal Workshop 1996;  
<https://www.geothermal-energy.org/pdf/IGAstandard/NZGW/1996/Morris.pdf>
- Skoric P, Kirby B "Dynamic Simulation of Power Plant Operation", IPENZ Conference, 1996;  
<https://search.informit.com.au/documentSummary;res=IELENG;dn=911842695610893>
- Skoric P, Skrtic V, Luketic A "Power Plant Equipment Functional Test", ORKOM III, 1986;
- Skoric P, Skrtic V, Luketic A "Steam Wetness Throttling Measuring Method", ORKOM IV 1988.
- Skoric P "Woodward UG-8, Design, Transfer Function, Application & Testing" Jugoturbina (internal paper) 1985;

### **Education**

: B.E. (Power Engineering – Zagreb University) - 5 Years

### **Additional Training**

: GE Speedtronic Mark V (2002), GE Steam Turbine Operation (2002); Woodward NetCon, MicroNet, Atlas (2005), ITCC (2005), GE Speedtronic Mark VI (2006); GE Speedtronic Mark VIe (2008)

### **Language Skills**

: English, Balkans local languages

### **Personal Information :**

Date of birth : 04.04.1955;  
Nationality : New Zealand/Croatia;  
Children : Proud father of Petra (1979) and Damir (1985);  
Marital status : Happily married to Coco;  
Interests : Promoting life, work and achievements of his great countryman and one of the greatest engineers ever Nikola Tesla.

### **Contact**

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