

PERSONAL INFORMATION

IONUT PETCU



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Gender: **Male** | Date of birth: **1981, 07.30th** | Nationality: **Romanian**

PREFERRED JOB **3D Design Engineer**

WORK EXPERIENCE

- 2016.⁰³ – today** Occupation: **Civil Design Engineer – Glass Partitions Design**
Employer: **SMART & FAST COSTRUCT S.R.L. / PRO-SMART** - Constanta, Romania
Responsibilities: Glass partitions design. Concept modeling design with details and engineering technical assistance in glass partitions, walls, rails, curtains and other parts according PAP / PATSALAS supplier specific regulations - in english or romanian
- 2015.¹¹ – 2016.⁰²** Occupation: **Naval Design Engineer – Hull Basic Design**
Employer: **BLUE LINE S.R.L.** - Constanta, Romania
Responsibilities: Naval structural basic design using AutoCAD. Concept design with details and engineering technical assistance in livestock vessel conversions according specific registry regulations - in english
- 2014.⁰⁹ – 2015.¹¹** Occupation: **Naval Design Engineer – Hull Design, Detail Assembly Procedure**
Employer: **DAEWOO MANGALIA HEAVY INDUSTRIES S.A** - Mangalia, Romania
Responsibilities: Naval structural design using Aveva Tribon M3 / AutoCAD. Concept design with detailed assembly procedures for ship production, estimation of block welding work-volume for man-hour planning - in english
- 2014.⁰⁶ – 2014.⁰⁸** Occupation: **Naval Design Engineer – Hull Design, Structure Modelling**
Employer: **SO. GE. SE ENGINEERING S.R.L.** subcontractor **FINCANTIERI** – Venice, Italy
Responsibilities: Naval structural design using NuovoScafo / MicroStation. Modelling of hull structure, decks, girders, frames, bulkheads, cut-outs in decks or profiles, structural areas below decks, plate nesting - in italian
- 2012.⁰⁴ – 2014.⁰⁶** Occupation: **Civil Works Design Engineer – Water Treatment Installations Equipments**
Colaborator: **HYDRO-CARPATI S.R.L.** – Statina, Olt, Romania
Responsibilities: CAD design for civil and industrial networks and facilities, execution details of installations and equipments for rehabilitation of water treatment plants, chlorination systems - in romanian or english
- 2012.⁰³ – 2014.⁰²** Occupation: **Civil Works Design Engineer – Water Treatment Supply & Sewage, Piping**
Employer: **IBER IMPORT S.R.L.** – Corabia, Olt, Romania
Responsibilities: Calculations, estimates and technical tenders. CAD detailed design for civil, reinforcement, hydro-mechanical works, pumps and equipments for domestic and industrial water treatment plants – in romanian or english
- 2006.⁰⁹ – 2012.⁰³** Occupation: **Civil Works Design Engineer – Water Treatment Supply & Sewage, Piping**
Employer: **ALLPLAN PROIECT S.R.L.** – Constanta, Romania
Responsibilities: Calculations, estimates and technical tenders. CAD detailed design for hydro-mechanical works, water supply and sewage networks for domestic and industrial water treatment plants – in romanian or english

EDUCATION AND TRAINING

- 2015.⁰⁶ – 2015.⁰⁷** Engineering studies – **Project Manager, COR Code 242101**
National Qualifications Authority on Pro-Youth Association, Constanta, Romania
- 2009.¹² – 2010.⁰¹** Engineering studies – **Structural Analysis** using Nemetschek SCIA – basic level
Nemetschek Romania on Ovidius University of Constanta, Romania
- 2008.¹⁰ – 2010.⁰⁶** Long-term higher education – **Hydro-technical Works** (unfinished studies)
Construction Faculty, Ovidius University of Constanta, Romania
- 2009.⁰¹ – 2009.⁰³** Engineering studies – **Computing Lists of Works and Estimates** using **WinDoc Deviz**
Vocational Training Institute **IntelSoft, Galati, Romania**
- 2003.¹⁰ – 2006.⁰⁶** Short-term higher education – **Urban Works** (civil engineer bachelor diploma)
Construction Faculty, Ovidius University of Constanta, Romania
- 2002.¹¹ – 2002.¹²** Courses in publishing – **Microsoft Office** Word, Excel, PowerPoint
Vocational Training Institute **International Computer School, Constanta, Romania**

PERSONAL SKILLS

Mother tongue
Other languages

Romanian

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Listening	Reading
English	C1	C1	C1	C1	C1
Spanish	C1	C1	B1	B1	B1
Italian	C1	C1	B1	B1	B1
French	A2	A2	A1	A1	B1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user – Common European Framework of Reference for Languages.

- Communication skills I can work as part of a team or individually, I am perseverent, honest, with aesthetic sense, attention to detail, adaptable, involved, with good communication skills
- Managerial skills On shipyard monitoring assembly teams with workers and foremans based on daily individual working progress, supervision made in shipyard patrols with progress reports
- Job-related skills Naval structural design – Aveva Tribon M3, AutoCAD, Microstation, NuovoScafo
3D modeling CAD civil / reinforcement – Nemetschek Allplan, AutoCAD
Structural analysis – Nemetschek Scia
Engineering calculations - MathCAD
Civil works costs estimates – eDevize, Intelsoft Deviz and WinDoc Deviz
Desktop Publishing – Microsoft Office Suite – Word, Excel, Powerpoint
- Computer skills Graphics and design - Adobe Photoshop, Corel Draw, flash animations - SWiSHmax
Web programming, HTML, PHP, CSS, JavaScript, MySQL databases, FTP transfer
PC hardware / software support, TCP-IP, cPanel servers and networks maintenance
- Other skills Hobby: Dancing, travels, running
- Driving license Category **B** (cars up to 3.5 to) starting 2007.⁰⁹

ADDITIONAL INFORMATION

- Publications **User Quick Guide for Nemetschek Allplan BIM 2008** (in romanian)
Authors: eng. Dan Pascale, eng. Adrian Ghencea, eng. Ionut Petcu
Tribon M1-M3 - 2D Drafting / Planar Hull Modelling Quick Use Guide (in romanian)

On request I can provide translated copies of studies and recommendations.
Best regards, eng. IONUT PETCU

ANNEX: HISTORY OF EMPLOYMENT

Role: **Civil Design Engineer – Glass Partitions Design**

Company: **SMART & FAST COSTRUCT S.R.L. / PRO-SMART**

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Main activities and responsibilities:

- 2D/3D concept modeling design with details and engineering technical assistance for glass partitions, walls, rails, curtains and other parts according PAP / PATSALAS supplier specific regulations - in english or romanian

Role: **Naval Design Engineer – Hull Basic Design / Naval Architecture**

Company: **BLUE LINE S.R.L.**

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Main activities and responsibilities:

- basic design of decks, girders, frames, ramps, stanchions and rails, deck extensions, bulkhead closings and technical assistance in livestock vessel conversions according specific registry regulations – in english

Role: **Naval Design Engineer – Hull Design / Indoor, Operation & Progress Control, Detail Assembly Procedure**

Company: **DAEWOO MANGALIA HEAVY INDUSTRIES S.A.**

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Projects:

- **1059/1060/1061 – 180.000 TDW Bulk Carrier** – double bottom B2xx, covers B51x blocks assembly details
- **5010/5011/5012 – 112.800 TDW Tsakos Crude Oil Tanker** – aft B1xx, double bottom B2xx, transversal internal walls B4xx, decks B5xx, double walls B6xx, internal walls B7xx, suprastructure B9xx blocks assembly details
- **5023 – 112.000 TDW Minerva Product Carrier** – aft B1xx, double bottom B2xx, transversal internal walls B4xx, decks B5xx, double walls B6xx, internal walls B7xx, suprastructure B9xx blocks assembly details
- concept of a Tribon M1-M3 - 2D Drafting / Planar Hull Modelling Quick Use Guide – In romanian

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Main activities and responsibilities:

- concept design with detailed assembly procedures for ship production, block marking and planning of assembly shop procedures using Tribon M3 (Planar Hull Modelling / 2D Drafting / Design Manager) – in english
- calculation of block welding work-volume for man-hour planning – marshaling codes updates in Magics management internal system
- review and assessment of specifications and design documentation, receipt and interpretation of korean revisions design prior to assembly, lifting or outfitting stages, ship body execution details - in english
- participation in design reviews, patrol visits in indoor, outdoor, erection stages for assembly supervision

Role: **Naval Design Engineer – Hull Design, Structure Modelling**

Company: **SO. GE. SE ENGINEERING S.R.L.** subcontractor of **FINCANTIERI S.p.A.**

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Main activities and responsibilities:

- modelling of decks, frames, girders, bulkheads, cutouts design in structure for pipe sections, structural areas below decks, watertights, plate nesting, local design details using NuovoScafo / MicroStation – in italian
- preparing the nesting / cutting information (panels, internal pieces, profiles, bending profiles)
- review and assessment of specifications and design documentation, participation in design reviews

Role: **Civil Works Design Engineer – Water Treatment Installations & Equipments**

Company: **HYDRO-CARPATI S.R.L.** (part-time - project based)

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Projects:

- **VJ-CL03: Drinking Water Treatment Plant Rehabilitation Jiet and Chlorination Systems for Lupeni, Vulcan and Aninoasa, Romania** – project value: ~ 2,1 million €
- **CV-CV & TS & SG-YB: Rehabilitation and Extension of Water Treatment Plants, Rehabilitation Fronts Capture, Suction Pipes and Building of Water Reservoirs for Covasna, Târgu Secuiesc and Sfântu Gheorghe, Romania** – project value: ~ 12,3 million €

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Main activities and responsibilities:

- CAD design project based for civil and industrial networks and facilities
- collaboration in making plans for site engineering, installation and execution details of the installations for the rehabilitation of water treatment plants, chlorination systems - in romanian or english

Role: **Civil Works Design Engineer – Water Treatment Supply & Sewage, Piping, Pumps**

Company: **IBER IMPORT S.R.L.**

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Main activities and responsibilities:

- preparation of engineering calculations, estimates and technical documentation as equipments for supplier of waste water treatment plants – Resmat, Barcelona, Spain – using MathCAD, Microsoft Office Word, Excel – in romanian, english or spanish
- CAD detailed design for civil works, reinforcement, hydro-mechanical, automation for pumping stations, domestic and industrial waste water treatment plants made of grp or reinforced concrete tanks with capacity up to 1.000 mc/day using Nemetschek Allplan, AutoCAD – in romanian, english or spanish

Role: **Civil Works Design Engineer – Water Treatment Supply & Sewage, Piping, Pumps**

Company: **ALLPLAN PROIECT S.R.L.**

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Projects:

- **2002/RO/16/P/PE/022-05: Rehabilitation of Drinking Water Treatment Plant Dumbrava, Sibiu, Romania** – value: ~ 8,7 millions €
- **2004/RO/16/P/PE/001-06: Rehabilitation of Drinking Water Treatment Plants Bucecea and Catamarasti, Botosani, Romania** – value: ~ 10,6 millions €
- **2000/RO/16/P/PE/005: Rehabilitation of Water Supply and the Waste Water Treatment Plant Pascani, Iasi, Romania** – value: ~ 14,0 millions €
- **POS/2433/2008: Extension and Rehabilitation of Drinking and Waste Water Systems Agnita, Dumbraveni, Sibiu, Romania** – value: ~ 8,7 millions €

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Main activities and responsibilities:

- preparation of engineering calculations, estimates and technical documentation using MathCAD, Microsoft Office Word, Excel – in english or romanian
- CAD detailed design for civil works, reinforcement, hydro-mechanical, water supply and sewage networks, rivers regularization, automation for pumping stations, domestic and industrial drinking water treatment plants, waste water treatment plants made of reinforced concrete tanks with capacity up to 10.000 mc/day using Nemetschek Allplan 2008, AutoCAD – in english or romanian
- drawing conversions support from 3D SolidWorks models to Nemetschek Allplan or AutoCAD
- technical engineering support for contractors representatives and project managers for approval solutions in various situations to field construction stages: hydro-mechanical and structural details respecting the client requirements

If you have any questions, please do not hesitate to contact me.