



Pavel Diakonov

Mechanical Design Engineer

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Tbilisi, Georgia

Profile

A highly efficient and talented design engineer with a comprehensive understanding of design processes and manufacturing methods. Experienced in all the design stages of a product, including research, development, manufacturing, installation and final commissioning. Possessing a good team spirit, deadline orientated and having the ability to produce detailed plans for design and manufacturing processes. Keen to find a challenging & suitable engineering position with an ambitious company that offers opportunities for career development and advancement.

Education

MSc Mechanical Engineering | Bauman Moscow State Technical University (2004 – 2010)

Skills

- SIEMENS NX (CAD/CAM/CAE/Drafting/Postbuilder modules)
- Solidworks (CAD/CAM/CAE/Drafting modules)
- Strong knowledge of technological capabilities of various machines
- Strong knowledge of manufacturing processes (cutting, grinding, welding, casting)
- Strong knowledge of GD&T
- MS Office, MathCAD

Foreign languages

English B2

Native language

Russian

Experience

Chief Design Engineer | LLC NPO Mashstal, Moscow

2018 – 2022

Responsible for providing technical advice and direction to engineering functions. Lead engineering design process of depot equipment, such as wheel lathes, railcar movers, railcar lifts, etc.

- Creating and managing Engineering Department of the company
- Develop and maintain project plans using MS Project
- Researching and developing ideas for new products
- Producing cost estimating
- Choosing spare parts and subcontractors

Achievements:

- 5 projects of modernization of special heavy-duty lathe machines were developed. Over 10 machines based on these projects were delivered to the customers. (\$250000 – \$350000 each machine)
- 5 projects of rail-car lifts were developed (1 set of lifts is undergoing acceptance testing)
- 1 project of rail-car mover was developed (undergoing acceptance testing)

Manufacturing Process Engineer, CNC Programmer | LLC Mir Stanochnika, Moscow

2015 — 2018

Responsible for safe and cost efficient workpiece machining and providing engineering services for customers.

- Workpiece processing technology development
- CNC programming
- Postprocessor development
- Tools and setup selection

Achievements:

- With my technical and technological advice, 4 complex projects for a total amount exceeding \$1,500,000 were accomplished. These projects included machines, manufacturing processes, fixtures, and tools.
- With my technical and technological advice, the company was selling fixtures, tools, and engineering services on a monthly basis, generating approximately \$300,000 to \$500,000 in sales.

Engineer | Pavlov Moscow Polytechnic College N8, Moscow

2014 — 2015

Responsible for safe and efficient studying process. Also responsible for costing parts and CNC machines programming in the college shop.

- Teaching students to work in Solidworks, Siemens NX
- Teaching students to work on CNC machines (lathe, mill and EDM)
- CNC programming
- Tools and setup selection
- Postprocessor development
- Parts costing

Process Engineer, CNC Programmer | JSC MMZ Rassvet, Moscow

2012 — 2014

Responsible for CNC machines (lathe, mill and EDM) programming, setup and operators safety.

- CNC programming (CAM and direct G-code input on the operator's panel)
- Postprocessor development
- CNC machines setup

Courses and certificates

- Solid Round Tools | Sandvik Coromant, Moscow, 2016
- High feed milling - speed up the production process | Sandvik Coromant, Moscow, 2016
- Metal Cutting Technology Class | Sandvik Coromant, Moscow, 2017
- Silent tools | Sandvik Coromant, Moscow, 2017