

Timofey Neipert

Male, 27 years old, born May 2, 1999

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Location: Moscow, Russia

Citizenship: Russia, work permit: Russia

Not open to relocation, open to business travel

DESIRED POSITION

Production Systems Simulation Engineer / Simulation Engineer

Specializations: Analyst, Process Engineer

Employment type: full-time, part-time, project/one-off work

Work format: on-site, remote, hybrid, travel, rotational

Acceptable commute time: no preference

WORK EXPERIENCE — 9 YEARS 2 MONTHS

Nov 2023 —
present
2 years 9 months

PIK Group

Russia, pik-group.com · Construction, real estate, operations, design — residential and commercial construction

Chief Production Simulation Specialist

Key responsibilities:

- Developing, updating and maintaining digital models of production systems and process flows in Tecnomatix Plant Simulation.
- Building and analyzing digital twins of planned production facilities to verify throughput, system stability and load-change scenarios.
- Modeling the dynamics of production processes, transport flows, inter-shop logistics and equipment constraints.
- Analyzing bottlenecks, constraints and deviations in production system operation, and preparing optimization proposals.
- Preparing engineering materials to support decisions on layout, production flow structure and system operating parameters.
- Participating in conceptual production design, basic engineering, and development of automation architecture at the SCADA/MES level.

Results:

1. **Updated the digital model of the finishing line.** Developed and updated a digital model of the production line; the results confirmed that one of N planned lifts and N storage cells could be eliminated, cutting planned capital expenditure by approximately X%.
2. **Optimized the inter-shop transport system.** Analyzed the dynamics of AGV operation between three shops, identified throughput constraints, and proposed adjustments to equipment layout and logistics routes.

3. **Balanced production site parameters.** For the wooden beam preparation site, determined the required number of transport carts and equipment cycle-time parameters, reducing transport system overload and improving process stability.
4. **Built an engineering tool to support the production process.** Developed code that automatically generates diagrams for hanging products on the finishing-line traverse (overhead hanger bar), with table and visual output for shop-floor staff.

Jun 2017 —
Nov 2023
6 years 6 months

Moscow Aviation Institute (National Research University)

Moscow · Educational institution — university, research and academic activity, professional development

Engineer / Lecturer / Teaching Assistant

Key responsibilities:

- Creating simulation models of production facilities, process areas and workstations.
- Developing and maintaining engineering and digital models of production processes.
- 3D modeling of parts and assemblies in CAD systems.
- Developing and preparing design and process engineering documentation.
- Preparing methodological materials on CAD/CAE/simulation tools.
- Teaching courses on simulation modeling, CAD, and automation of manufacturing process planning (CAPP/TPP).

Key results:

1. **Digital twin of a modular house manufacturing plant.** Developed a digital model of the plant that confirmed the calculated shop throughput and validated the design decisions made.
2. **Modeling of process areas.** Modeled individual production areas, confirming expected line throughput and identifying constraints at an early stage.
3. **Visualization and investment justification.** Created static and dynamic visualizations of production processes, used to support investment decisions for a new plant.
4. **Optimized process solutions.** Proposed reworked process solutions combined with robotization, reducing the labor intensity of helicopter fuel tank manufacturing by X%.

EDUCATION

2022 · Higher education

Moscow Aviation Institute (National Research University), Moscow

Institute 12, 24.04.01 "Rocket Systems and Astronautics"

2020 · Professional development, courses

"Implementation of Knowledge Management Technologies in University Innovation Activities," qualification "Project Management Specialist"

MAI School of Management

SKILLS

Russian — native

English — B2, upper-intermediate

3D Modeling

Lean Manufacturing

Simulation Modeling

Process Engineering

SolidWorks

PLM

CAD Systems

Design Engineering

CAD

3D Printing

Siemens NX

Tecnomatix Process Simulate

Plant Simulation

AnyLogic

DRIVING EXPERIENCE

Owns a car

Category B license

ADDITIONAL INFORMATION

Portfolio: neiperttimofei.ru

Specialist in digital twins and simulation modeling of production systems, with experience in industrial engineering, design and optimization of manufacturing facilities.

Core focus — developing, maintaining and updating digital models of production systems, scenario analysis, bottleneck identification, and supporting engineering decisions based on simulation.

Hands-on experience at the intersection of production design, process engineering, logistics, automation and engineering analytics. I use digital models as a tool to evaluate changes in system parameters, flow structure and equipment configuration.

Interested in moving into work involving industrial digital twins, engineering models of process equipment, and dynamic/online optimization of production processes.