



Gregori Shapochnik

Production & Engineering Management | Digital Manufacturing Architect | ERP | MES | BI | Data Science | CNC Automation

Contact

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Nahariya, Israel

Core Competencies

- Engineering & Production Management
- Industry 4.0 & Smart Factory
- ERP/MES Architecture & Data Integration
- CNC Automation (Fanuc, Siemens, Heidenhain)
- BI & Data Analytics (SQL, Power BI, Qlik Sense)
- Lean Manufacturing / Continual Improvement
- Composite Manufacturing & NDI
- Cross-Functional Leadership & Team Development

Education

- 2023-2025 • MBA – Data Science & Business Administration
Ono Academic College
- 2018-2022 • BA – Human Resources & Management
Tel-Hai Academic College
- 1996-1998 • BS – Mechanical Engineering
Technical University (USSR)

Languages

Hebrew – Native | English – Full Professional
Russian – Native

About Me

- Experienced engineering and manufacturing leader with 15+ years in aerospace production, digital transformation, automation, and Industry 4.0.
- Specialized in bridging production, engineering, NDI/composites, CNC, BI & IT systems into one integrated smart-factory environment.
- Strong track record in process optimization, team leadership, ERP/MES implementation, BI analytics, and CNC automation.

Professional Experience

Elbit Systems – (2014–Present)

Director of Engineering Departments | 2025–Present

Leads Tooling Design, Composites, NDI, CNC Programming & Automation.

- Driving digital transformation and smart-factory initiatives.
- Managing cross-department engineering alignment and technology strategy.
- Leading multidisciplinary teams and operational excellence programs.

Production Manager — Mechanical Plant | 2022–2025

Managed 35+ employees across three production units (mass production + prototypes).

- Introduced Lean flow improvements increasing throughput and efficiency.
- Implemented BI dashboards for operations, quality, and CNC performance.
- Drove hybrid production model integrating R&D and serial manufacturing.

Head of Technology & Software Development | 2018–2022

- Designed internal MES/ERP automations (SQL, Python, Visual Studio) - MMS application.
- Automated CNC data flow, reporting, and integration into BI systems.
- Led NPI & POC processes and manufacturing transfer to ELMET Romania.

Head of CNC Programming Department | 2016–2018

- Managed 11 programmers and established CNC management system for Industry 4.0.

NC Programmer & Technologist | 2014–2016

- Developed multi-axis machining processes for aerospace components (CATIA, VERICUT, SolidCAM).

H.R Givon Ltd. (2011–2014)

- Lead Process Engineer and CNC Technologist.
- Developed Post-Processor and Machine Simulation (VERICUT) programs for 5-axis machines.
- Supported Boeing projects with advanced CAM automation.

Shtula Metal (2010–2011)

- Chief Technologist & Programmer managing 5-axis machining team.
- Led fuel-tank manufacturing project for the F-16 program.

ISCAR (2007–2010)

- CNC Technologist in R&D; specialized in highprecision machining and process verification.



KEY ACHIEVEMENTS

- Increased production throughput by 22% through Lean and digital optimization.
- Reduced CNC programming cycle time by 30–40% via advanced CAM + VERICUT automation.
- Lowered manual reporting workloads by 70% by building internal MES/BI infrastructure.
- Successfully transferred manufacturing processes to ELMET Romania (NPI + training).
- Developed BI ecosystem for management decision-making (quality, OEE, delivery performance).
- Built internal MES/ERP features integrating CNC data, dashboards, and process analytics.
- Implemented composite manufacturing & NDI data standardization.
- Managed large technical departments with continuous KPI growth (quality, delivery, scrap).



TECH STACK

- Programming: Python, C#, VB.NET, SQL
- BI: Power BI, Qlik Sense
- CAD/CAM: CATIA, SolidCAM, Cimatron, SolidWorks
- Simulation: VERICUT, IMSpost
- Automation: Fanuc, Siemens Sinumerik, Heidenhain
- Tools: Visual Studio, Azure



CERTIFICATIONS

- CNC Machining Level III – Milling
- Cyber Experts Board Directors Program
- Training Within Industry (TWI)
- CNC Job Certification
- Safety Committee Management



INDUSTRY EXPERTISE

- Aerospace manufacturing
- CNC multi-axis machining
- Composites & NDI inspection
- Digital transformation & smart factory
- Process engineering & automation
- High-precision machining for R&D and mass production



KEY PROJECTS & INNOVATIONS

Smart Factory / Industry 4.0 Initiatives

- CNC data collection (Fanuc, Siemens, Heidenhain).
- Live dashboards for CNC load, performance, and quality.
- Automated OEE & downtime analytics.

MES / ERP Development (MMS)

- Internal MES modules (Python + SQL + BI).
- Shop-floor digitalization (paperless processes).
- Workflow automation for CNC, NDI, composites, tooling.

CNC Automation

- Post-processors & VERICUT machine simulations.
- Tool library management & automation framework.
- Multi-axis machining optimization.

Composite Manufacturing & NDI

- Standardized inspection flow.
- BI visualization for NDI results and traceability.



LEADERSHIP PROFILE

- 10+ years in leadership roles: Production Manager, Director of Engineering.
- Managing tooling, composites, NDI, CNC, automation, R&D, and logistics interfaces.
- Strong background in matrix management and multi-department coordination.
- Experienced in building and mentoring technical teams (engineers, technologists, programmers).
- Leading change management and adoption of new technologies.