

Nikolai Kulikov

Senior Design Engineer | Innovative Engineering Specialist | Deep Tech Pioneer

Location: Charlotte, North Carolina, USA

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Professional Profile

Accomplished engineering specialist with over a decade of experience in innovative design, advanced manufacturing, and complex engineering solutions. A proven leader in the fields of additive manufacturing and deep-tech innovation, with a track record of driving projects from concept to market. Strong expertise in managing classified national projects, engineering development, and high-tech startups.

Programs used in the work: SolidWorks, AutoCAD, Inventor, MS Office

Key Skills

- Additive Manufacturing Technologies
- Advanced Engineering Design
- Project Management and R&D Leadership
- Innovation in Deep-Tech Solutions
- Strategic Planning and Business Development
- Out-of-the-box thinking
- Prototyping and Testing
- Collaboration with International Teams
- Startup Development and Mentorship

Career History / Work Experience

Sep 2024 – Aug 2025 | SkyForge Inc., <https://skyforge.zone> | CTO and Co-Founder

Develops groundbreaking technology that integrates ozone generators into commercial aircraft, enabling airlines to contribute directly to the restoration of the ozone layer with every flight.

Key Responsibilities

- Lead R&D.
- Collaborate with scientists and engineers to create and implement efficient, scalable ozone generation systems.
- Identify and implement technology strategies that align with SkyForge's mission to solve critical environmental problems.
- Interact with stakeholders, partners, and regulators to ensure compliance and facilitate collaboration.

Feb 2024 – Present | SynthoShield LLC | Founder

A startup developing a composite protection and an innovative and patented plasma energy generator using low-temperature plasma

Key Responsibilities

- Lead R&D.
- Manage cross-functional teams to deliver high-performance, scalable energy solutions.
- Develop technology roadmap strategies to meet both current and future needs.
- Ensure compliance with industry standards and promote engineering best practices.

Aug 2014 – Jul 2019 | JSC "FRPC Titan-Barricades", publicly-owned establishment <https://cdbtitan.ru/> | Design Engineer 1st category

JSC "FRPC Titan-Barricades" is a state-owned enterprise specializing in the design and production of advanced systems for the defense sector, including missile systems, military vehicles, and high-tech engineering solutions. Staff of over 4,000 employees.

Key Responsibilities

- Lead R&D projects for civilian and strategic missile systems.
- Chaired defect analysis commissions and led equipment testing for defense applications.
- Contributed to classified projects requiring advanced technical expertise and security clearance.
- Developed conceptual, technical, and working projects for medium and high-complexity products.
- Participated in meetings and delivered presentations for management and clients.
- Developed and coordinated technical specifications with clients.
- Designed control units, hydraulic bunkers, and multi-stage hydraulic cylinders.

Aug 2020 – Jul 2021 | PJSC "766 PTSM", publicly-owned establishment | Design Engineer 1st category

766 UPTK is enterprise specializing in the development and production of robotic systems, military equipment, and advanced defense technologies, including remote-controlled combat modules and autonomous robotic complexes. Staff of over 500 employees.

Key Responsibilities

- Established and developed a radiation protection division.
- Developed innovative engineering solutions for classified robotic systems.
- Lead R&D projects.
- Contributed to classified projects requiring advanced technical expertise and security clearance.
- Developed conceptual, technical, and working projects for medium and high-complexity products.
- Participated in meetings and delivered presentations for management and clients.

Dec 2019 – Jun 2024 | Kulikov Nikolai LLC | Founder and Innovator

Development and manufacturing of parts using additive technologies.

Key Responsibilities

- Problem-Solving and Prototyping.
- Designed precision mechanical parts and tooling for prototype manufacturing and small-batch production.
- Conducted testing and performance evaluations, refining designs to ensure efficiency, durability, and reliability under real-world conditions.
- Production Equipment Enhancement.
- Technical process development and documentation.
- Marketing and Promotion.
- Serial Production Setup.
- Client and Partner Relations.
- End-to-End Product Development.

Jan 2023 – Apr 2024 | Seattle Foundation Repairs and BunkerUSA | Engineer

Seattle Foundation Repair specializes in structural repairs and foundation restoration, while BunkerUSA focuses on the design and development of high-tech underground radiation protection shelters.

Key Responsibilities

- Material and Process Management.
- Equipment and Maintenance Oversight.
- Designed custom solutions for radiation protection shelters.
- Conducted R&D for structural products.
- Client and Project Coordination.
- Patent and Documentation Support.

Education

Sep 2008 – Jun 2014 | Volgograd State Technical University

<https://www.vstu.ru/>

Volgograd, Russia

Master's degree, Rocket and Spacecraft Launch and Technical Complexes Engineering

Achievements

- EB-1A Extraordinary Ability (Approved 2025, USA).

Awards

- **Deep Tech Pioneer (2024)** – Hello Tomorrow, Paris, France
Recognized for exceptional contributions to deep-tech innovation.

Patents

- **Plasma Power Generator** (Provisional Patent, USA, 2024)
- **Stratospheric Ozone generator and injector** (Provisional Patent, USA, 2024)
- **Composite Lightweight Protection Material** (Provisional Patent, USA, 2024)

Personal Information

- Address: Charlotte, NC, USA
- Citizenship: Russian
- Material status: married
- Languages: English (B2), Russian (Native)
- Driving license: USA, Europe

Personal Interests

- Additive manufacturing
- Deep-tech innovation
- Travel: exploring new locations and cultures