

Lukas Lenktaitis

Mechanical / Product Engineer



With a background in mechanical engineering and product development, along with expertise in CAD design, robotics, and computer vision. My academic achievements, including a Master's thesis focusing on computer vision for corrosion detection, demonstrate my ability to tackle complex challenges. Practical experiences in industries ranging from automotive design to product development have honed my skills in SolidWorks, AutoCAD, and other relevant tools. I am eager to bring my passion for innovation and my diverse skill set to contribute to cutting-edge projects in the engineering field.

EDUCATION

Mechanical Engineering & Economics (Bachelor's Dual Degree)

Thesis: Robot & Electrical Box in CAD

KTU, Kaunas, Lithuania

August 2013 - July 2017

Mechanical Process

Engineering and Robotics

Erasmus+ (German Language)

Wismar Hochschule, Germany

January 2015 - July 2015

Product Development & Materials

Engineering (Master's Degree)

Jönköping University, Sweden

July 2017 - September 2017 (left)

Industrial Engineering & Management(Master's Degree)

Thesis: Computer Vision for Corrosion

KTU, Kaunas, Lithuania

September 2017 - July 2021 (on hold)

MATLAB - Image Processing & Machine Learning

Certification

Coursera Online Course

2023

Deep Learning Applications for Computer Vision (Python)

Certification

Coursera Online Course

2023

RELEVANT WORK EXPERIENCE

Mechatronics / Mechanical Engineer

UAB Festo | Lithuania | Internship | January 2016 - May 2016

- Designed and developed 3D CAD robot manipulator and electrical box using Festo automation parts, integrating mechanical, electrical, and control systems. Utilized SolidWorks for design and simulation, and created 2D drawings and documentation for manufacturing and assembly processes.
- Implemented C++ programming in Visual Studio for control and communication of robotic systems, enhancing performance. Conducted price calculations and market analysis to support decision-making and strategic planning.
- Conducted beam load testing and CAE analysis to optimize structural performance. Collaborated in R&D projects, providing technical support.

Key achievements

- Accelerated project: Completed in 3 months, ahead of the 4-month schedule.

Industrial Design Engineer

UAB Metalurga | Contract | May 2016 - September 2016

- Designed and rendered approximately 150 different gates using SolidWorks, ensuring accuracy and meeting client specifications
- I created gate installation instruction videos using Cinema 4D and KeyShot, simplifying the installation process for clients, and produced animations to showcase product features and improve marketing.

CONTACT

L.Lenktaitis123@gmail.com

Phone: +47 988 59443

Address: Vestre Almelien 52,
Jar, Bærum, Norway

No children, not married

Nationality - Lithuanian (EU)

Driving license - B

Employment status: unemployed

[My LinkedIn](#)

[My GitHub](#)

TOOLS & HARD SKILLS

SolidWorks (CAD, CAM, R&D, FEA, CFD, Mechanical Design)

AutoCAD (2D drawings, architecture design, modelling)

Cinema 4D (3D modelling, animations, simulations)

Python (software engineering)

C++ (software development)

MATLAB (object detection, simulations, data analysis)

SAP (manufacturing processes)

KeyShot (industrial animations)

ANSYS (structural analysis)

Revit (building engineering, project development)

Adobe Suite (After Effects, Photoshop, InDesign, Illustrator)

Excel (data management, analysis, calculations, graphic tools)

Unreal Engine (3D animations)

Tensorflow (computer vision)

Figma (User Experience and User Interface)



Key Achievement

- Contributed to a 60% increase in company revenue through strategic design and marketing efforts, driving business growth and profitability.

z

Road Engineer

UAB Kamesta | Lithuania | Full-time | September 2016 - September 2018

- Conducted precise measurements using levels and other tools to ensure accurate road construction and maintenance.
- Managed a team of five individuals, delegating tasks, providing guidance, and ensuring adherence to project timelines and quality standards.
- Updated projects technical documentation and reports regularly to reflect progress, challenges, and completed tasks.
- Implemented efficient project management strategies that resulted in improved workflow and timely completion of road construction projects.

Key achievements

- Implemented safety protocols resulting in zero work-related accidents over a two-year period, enhancing the team's safety culture and project efficiency.

Automotive Design Engineer

LOMA Wheels | Contract | May 2018 - September 2018

- Collaborated on the design and development of enhanced bumper and rear for Ferrari Portofino, and improved alloy wheels using SolidWorks, employing innovative design development techniques.
- Conducted load testing with SolidWorks to ensure optimal performance and adherence to industry standards, contributing to mechanical design improvements.
- Prepared technical drawings for manufacturing processes, supporting the production of components.

Key achievements

- Facilitated resolution of a critical product attachment error, mitigating a 2-month delay in the manufacturing process.

Product Design Engineer

AB "Staliu gaminiai" | Contract | October 2018 - February 2019

- Utilized SolidWorks to model windows and created realistic visualizations using Corona Rendering, generating over 200 high-quality renders with meticulous attention to detail.
- Produced product animations with Keyshot to effectively showcase window features and benefits, driving sales and promoting products to customers.
- Collaborated closely with the project team to ensure consistency with project goals, adhering to product specifications and design requirements.

Key achievements

- Supported a 30% annual growth by creating captivating visualizations and animations, driving sales with effective product showcases, and collaborating with the marketing team to develop compelling promotional materials.
- Contributed to annual growth by utilizing engaging visualizations and animations to highlight product features, conducting market research to identify customer preferences.

CERTIFICATES & LICENSES

[SolidWorks](#)

[MATLAB](#)

[Cinema 4D](#)

[Computer Vision](#)

[Python](#)

[IT Automation](#)

SOFT SKILLS

- Time management
- Attention to detail
- Problem-solving
- Strategic thinking
- Perseverance
- Creativity
- Analytical skills
- Disciplined
- Innovative
- Teamwork
- Ability to meet deadlines
- Confidence
- Determination
- Compassion
- Punctuality
- Responsibility
- Result-oriented
- Adaptability
- Communication skills
- Leadership
- Hardworking
- Flexibility
- Integrity
- Empathy
- Decision-making
- Open-mindedness

PORTFOLIO

- [Mechanical Design](#)
- [Product Engineering & SW](#)
- [Architecture Design](#)
- [Graphical Design](#)
- [Sales Engineering](#)
- [Marketing & Web Solutions](#)



Mechanical Design Engineer

[Varta AG](#) | Contract | February 2019 - May 2019

- Collaborated with VARTA AG on a new battery project, focusing on the design and development of innovative battery styles.
- Created highly detailed 3D models of batteries using SolidWorks and other 3D modeling tools, and utilized advanced visualization techniques to produce stunning renderings.

Key achievements

- Assisted the company's marketing team in meeting crucial deadlines by working overnight to ensure timely completion of designs, preventing potential delays in product launch and marketing initiatives.

Product Development Engineer

[UAB Ekostruktura](#) | Lithuania | Contract | May 2019 - September 2019

- Spearheaded website creation and client acquisition efforts, data testing, research, facilitating the promotion and adoption of the innovative safety device.
- Produced impactful presentations and animated videos for marketing purposes, effectively showcasing the product's features and benefits to potential clients and stakeholders.

Key achievements

- Helped secure EU funding and won Best Innovation Idea in Lithuania, showcasing the product's potential to revolutionize road safety.

Computer Vision / Software Engineer

[Master's Degree](#) | Thesis | January 2019 - June 2021

- Developed a computer vision program using TensorFlow and VGG16, focusing on image classification to detect rust and no rust.
- Explored the theoretical foundations of artificial intelligence, detailing the evolution of the field and the mathematical principles underlying models like CNN, RNN, and ReLU.
- Investigated the practical application of computer vision in image processing, implementing advanced techniques to train the model for accurate classification tasks.

Key achievements

- Successfully developed a computer vision program achieving 98% accuracy in classifying images with rust and no rust, showcasing the practical application of artificial intelligence principles in real-world scenarios.

Mechanical Design Engineer

[Integrated Fiber Optics](#) | Contract | May 2019 - Sep 2019

- Created 3D renderings of laser head and amplifier using Keyshot, Cinema4D, and SolidWorks for marketing materials, focusing on accuracy and detail.
- Applied expertise in mechanical design, electronics, and optical laser technology to support new product development and marketing strategy.

Key achievements

- Ensured timely project delivery for exhibitions and key deadlines, while broadening business networks through new contacts in Taiwan.

LANGUAGES

Lithuanian:

Speaking Native

Writing Native

Understanding Native

English:

Speaking C1

Writing C1

Understanding C1

Norwegian:

Speaking B1

Writing B1

Understanding B1

German:

Speaking B1

Writing B1

Understanding B1

Russian:

Speaking A2

Writing A1

Understanding B1

SOME PROJECTS

[Online Products Catalog](#)

[Diffuser Installation Instruction](#)

[3D Showroom Store](#)

[Road Safety Device Presentation](#)

[Gates Installation Instruction](#)

[Transparent Wood Research](#)

[Road Safety Product](#)

[Furniture Online Store](#)

[Business Presentational Video](#)

[Gates Presentational Video](#)

[Energy Drink Presentation](#)

[Kitchen Design Website](#)

[Product Concept Presentation](#)

[Watch Presentational Video](#)

[Window Presentational Video](#)

[Doors Presentational Video](#)

[Cosmetics Presentational Video](#)

[Company's Presentational Video](#)

[Rendering Showreel](#)

[Robot Animation](#)

[Electrical Box Animation](#)



Product Process Engineer

Dovista AS | Lithuania | Full-time | Sep 2019 - May 2020

- Managed the continuous improvement of manufacturing processes for window production, ensuring compliance with ISO 9001 standards and utilizing methodologies such as FMEA and 5S for enhanced efficiency and quality.
- Developed technical documentation and standardized work procedures, conducting thorough process testing to optimize production workflows, including prototyping, 3D printing, and injection molding.
- Utilized Solidworks and AutoCAD to design precise 3D models, facilitating prototyping and undergoing comprehensive testing and risk analysis to ensure product integrity.
- Applied technical expertise with careful attention to detail to drive continuous process improvement and elevate product and quality assurance, contributing to the company's overall success.

Key achievements

- Achieved a 20% increase in production output over a 4-day work week, exceeding production targets and enhancing operational efficiency.
- Engineered and implemented a 3D printed redesigned wood cutting machine part, successfully reducing daily errors from 10-15 to zero, thereby enhancing production accuracy and efficiency.

CAD Constructor / Interior Architect

V&D Partner AS | Norway | Full-time | May 2020 - November 2021

- Created detailed 3D models of furniture and designed layouts for customer projects using Cinema 4D, SolidWorks, Keyshot, Photoshop, and After Effects.
- Managed the company's Facebook business page and executed advertising campaigns on Google and Facebook Ads, resulting in increased brand visibility

Key achievements

- Created the company's 3D online shop and online product catalog, enhancing the shopping experience and expanding the company's online presence by 80%.

CAD Constructor / Interior Architect

UAB Antonas Bygg | Drammen, Norway | Full-time | November 2021 - May 2023

- Created accurate visual representations of building interiors, exteriors, and landscapes using AutoCAD and Solidworks, ensuring alignment with client specifications.
- Played a pivotal role in the furniture manufacturing process by preparing precise designs for production, emphasizing attention to detail and quality assurance.
- Conducted comprehensive building materials calculations to guarantee structural integrity and regulatory compliance, maintaining open communication with clients throughout the process.
- Actively contributed to client consultations, analyzing and understanding their needs to deliver tailored solutions and exceed expectations in project outcomes.

Key achievements

- Implemented improvements and introduced new ideas to enhance project management efficiency while serving as the architect for a team of 25 workers. Managed projects effectively, provided consultations, and ensured the successful completion of all projects within designated timelines.

ACCOMPLISHMENTS

Mathematics Olympiad

Participant: Actively competed in statewide math contests, showcasing problem-solving skills.

"Maximalistas" Scholarship

Recipient: Recognized as one of the top 1000 scholars nationwide for academic achievements.

Certified Tour Guide: Accredited

guide for a renowned Lithuanian landmark, promoting local heritage.

Community Volunteer: Provided

assistance to elderly community members with meals and essentials, demonstrating social responsibility.

Athletic Achievements: Engaged

in school athletics and basketball, emphasizing teamwork and sportsmanship.

School Leadership Role: Served

as vice president, representing student interests at the municipal level.

HOBBIES & INTERESTS

- Learning New Things
- Reading Books
- Walking/Hiking
- Skiing
- Building Stuff
- Exploring New Technologies
- Following Politics
- Playing Basketball
- Painting/Drawing
- Learning New Languages