

ABOUT ME

I am an experienced Senior Mechanical Engineer and Engineering Team Lead with over 10 years of industrial, product development, and project management experience in international environments.

Throughout my career, I have led the design and development of custom machinery, welded steel structures, and production-oriented engineering solutions.
I have been responsible for the technical leadership, decision preparation, and full execution of complex mechanical and agricultural development projects—from concept development through to series production.

Author and Co-Author in 4 international Patent

VDT INSIGHT

TIBOR VARGA-DUDÁS

Senior Mechanical & Agricultural Engineer Expert

MY GENERAL GOALS

Senior Mechanical Engineering Leader and Engineering Consultant with extensive experience in leading multidisciplinary development teams, managing complex international projects, and supporting organizations in product development, R&D optimization, and technical decision-making.

My goal is to provide **external engineering leadership services** for mechanical and agricultural machinery development companies by combining deep hands-on engineering expertise with strong people leadership, strategic thinking, and a holistic system-level approach. I support companies in scaling their engineering teams, structuring development processes, accelerating product development, and bridging the gap between engineering, manufacturing, testing, and management.

I bring proven leadership experience in **matrix organizations**, international and multicultural environments, as well as **broad agricultural machinery know-how**, especially in harvesting technologies. I work effectively both as a **technical leader and trusted advisor**, helping organizations solve complex technical and organizational challenges while developing engineering teams and future leaders.

MAIN SKILLS

Engineering Leadership & Consulting

- Stakeholder Communication (Engineering, Management, Manufacturing, Testing)
- Engineering Strategy & Technical Decision Support
- Cross-functional & Multicultural Team Coordination

Project & Program Management

- International Project Management (IPJM certified)
- Complex Product Development Projects
- Simultaneous Engineering (SE Team Leadership)
- Time, Cost and Resource Management

Mechanical Engineering Expertise

- Mechanical Design & System Architecture
- Agricultural Machinery & Harvesting Technology (Corn Headers, Cropflow Systems)
- Manufacturing Technologies
- Prototype Development, Testing & Field Validation

Tools & Systems

- Siemens NX, Creo, SolidWorks, CATIA, HyperWorks
- 2D/3D CAD & Top-down / Bottom-up Design
- SAP environment experience
- Strong documentation & drawing standards

Problem Solving & Mindset

- System-level and holistic engineering thinking
- High-level problem-solving in complex technical environments
- Hands-on engineering combined with leadership mindset
- Strong assertiveness, communication, and decision-making skills

Agricultural & Field Experience

- Extensive hands-on field testing experience in agricultural machinery
- Deep understanding of real harvest conditions (corn harvesting)
- Close cooperation with production, testing, and service teams

AVAILABLE FOR COLLABORATION:

Development support, design review, project or engineering leadership roles in custom machinery manufacturing projects, including field and laboratory functional testing.

KONTAKT

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EXPERIENCES

VDT Insight - (2026-)

Provide external engineering leadership services for mechanical and agricultural machinery development companies.

LOVOL Heavy Indusrty Co. Ltd.- Engineering Team Leader of Header group (2024- 2026)

Lead and improve the Chinese and German corn header engineering team. Technical and project management lead and support of the new and actual developments. Keep trainings and give lead engineer support during the design, production and testing. Do corn harvest field tests, functional tests, and laboratory tests. Support all the other departments as well with expert knowledge (FEM, hydraulic, E&E, production, test team, etc.) Siemens NX software use for development.

CLAAS Hungária Ltd. RnD – Lead Mechanical Engineer, Cropflow responsible (2018- 2024)

Assembly group responsible (lead engineer) of cropflow. Research and develop a new generation picker corn header. Responsible for the corn header main picker function. Work close together with Advance development. Improve the main functions of the header, lead the component designers, harvest on the field, keep in touch all the other responsible colleagues and relevant departments. Support the products from the functional mockups until the serial production. SE-Team leader (Simultaneous Engineering Team Leader) of the picker unit main group. Experience in matrix organisation. Member of Cropflow Expert Team. Worked with SAP.

SELF-EMPLOYED (2013- 2019)

Contractor mechanical engineering work from the concepts until the production and assembly.
Main companies: MOL, Bridgestone, General Electric, Procter&Gamble, Rotte Kft, IVM Zrt., E77 Elektronika.
Heavy steel construction, individual machines, tools, wending machines, costumer products.

Rotte Ltd. – Projectmanager, mechanical engineer (2013-2018)

- Work in the company industrial activities. Sell the company available products or design new products, machines, parts what is requested by the costumers. From the survey through make offers, design, organise and help the production until the assemby and billing.

Technical University of Budapest – Technical assistant (2013. szeptember-2014. június)

Dendrit Ltd. - Engineer (2012. September -2013. December)

Design and concept work for the costumers of the company. The company main profile was the individual low and middle quantity products production with standard and special machines as well.
I created 3D models and with CAM software I generate the NC code and create the products in real life.
I earn experiences in laser and plasma cutting, milling, wire cutting, grinding, bending, rolling, welding, in general the tolerances and how possible to create them.
Consultant in 3D milling of the team members of TU Budapest Formula Student Team.

Dendrit Ltd. - Trainee (2011. November - 2012. September)

TU Budapest Formula Student Team – Member of Composit Team, (2010-2013)

STUDIES

Bielefeld University (Germany)- International Project Manager (IPJM)- Certification (2024)
Budapest University of Technology and Economics – Facility of Mechanical Engineering and the department of Machine and Product Design – MSc. Degree, Budapest (2013- 2015)
Budapest University of Technology and Economics – Facility of Mechanical Engineering and the department of Machine and Product Design – BSc. Degree, Budapest (2007-2013)
Petőfi Sándor Mechanical High School – Technical graduation, Aszód (2004-2007)