



ARION M. GROSS
Senior Technologist
AMGROSS@ENGSYS.COM

Mr. Gross is a Senior Technologist located in the Omaha, Nebraska office of Engineering Systems Inc. (ESi) and has an Associate of Applied Science degree in Design Technology from Iowa Western. He is part of ESI's Laboratory and Field Technologist group.

Mr. Gross's design background consists of almost a decade of experience using 3D CAD modeling software such as SolidWorks, Siemens NX, and Solid Edge. His design work has been used to develop test fixturing, reverse engineering, cloud files to solid models, FEA analysis, 3D printing and rendering.

He is a certified FARO operator and lead presenter for ESI's 3D Laser Scanning group. He has used scan data to recreate accident scene locations, surveying, and part modeling. Mr. Gross is also familiar with capturing accident scene locations by using a combination of laser scanning and drone data.

Mr. Gross also holds a Part 107 sUAS (small Unmanned Aerial System) license to operate a drone for commercial purposes. He is familiar with using ground control stations. He has done numerous aerial photos on accident locations to provide surveying and photogrammetry with DJI drone equipment. Types of scene locations captured by Mr. Gross using drone data include railway accidents, roadway accidents, and roof inspections.

He is also familiar with welding and fabrication processes, creating testing fixtures for industrial testing and automotive accident reconstruction matters. Mr. Gross also fabricates in-house tooling for ESI's laser scan equipment.

Mr. Gross produces live streaming video feed for clients to attend inspections remotely.

At ESI, Mr. Gross assists with metallurgical analysis methods such as metallographic preparation, chemical composition analysis, and hardness testing.

Mr. Gross is also a lift truck trainer, certifying members to obtain lift truck licenses.

Areas of Specialization

Solid Modeling and 3D Laser Scanning
Fabrication and Fixture Development
Welding Processes
107 Commercial Drone Operations and Ground Control Point Equipment
Live Inspection Streaming Services
Metallographic Material Preparation
Chemical Testing
Accident Investigation
Fixture and Test Design



3-Dimensional Printing
Lift Truck Trainer

Education

Iowa Western
A.A.S., Design Technology, 2015

Certifications

Miller Robotic Welding Basic Operations
Robotic Weld Programming (AWS A5.18 ER70S-6)
Faro Focus 3D Operator
Nation Safety Council Forklift Train the Trainer

Positions Held

Engineering Systems Inc., Omaha, Nebraska

Senior Technologist, 2023 – Present
Technologist, 2018 – 2022

Precision Components

Robotic Weld Technician, 2014 – 2018