CN-Seamless, Inc.:
Deployable Automation Equipment

NCMS Technology Showcase
FRC East

PROBLEM STATEMENT

Onsite fabrication and maintenance is limited in precision capability with manual welders/fabricators in the field. With an aging workforce in high demand, there's a strong need for these capabilities with less skilled labor and in general to have more capabilities onsite to reduce time and waste.

Executing fabrication, manufacturing, and maintenance onsite requires extreme focus, energy, and expertise from skilled workers. When critical repairs and construction are needed in a timely manner, teams don't have the time or capital to wait on transporting materials and equipment to shops outfitted with the machinery needed to complete the work.
Deployable technology for the Warfighter needs to be affordable,easy-to-use, and adaptable in the field.

BENEFITS

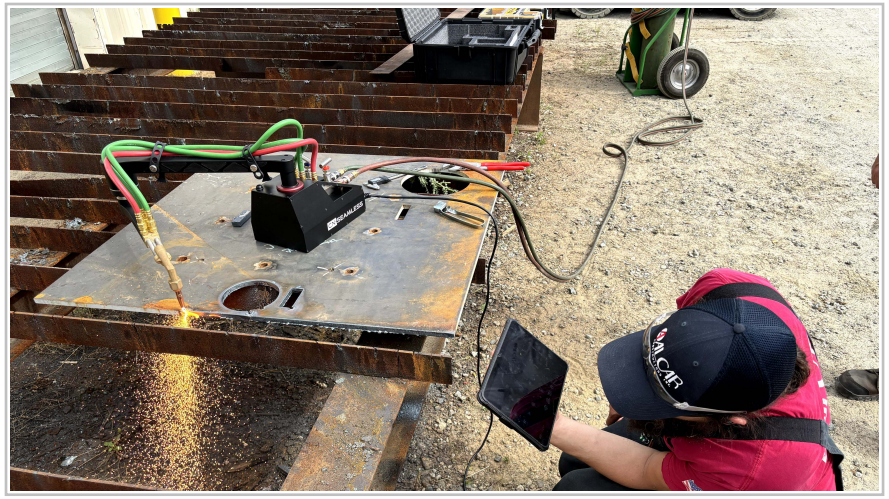
Impact: Teams can execute repairs and manufacturing anywhere more efficiently, safely, and cost effectively without needing skilled workers.

Competitive Advantage: No robotics platform exists that emphasizes portability, versatility, and usability like CN-Seamless. The tool is only as capable as the operator using it, and our range of attachments, simple setup, and ease of operation makes it an ultimate solution for the field worker.

CN-Seamless products are easily operated by the fabricators and welders familiar with the needs for maintenance and fabrication tasks. It sets up in under 2 min. and can perform the work of a skilled laborer in a fraction of the time, cost, and risk.

TECHNOLOGY SOLUTION

The Mach 1 is a deployable fabrication robot platform currently equipped with oxy-fuel and plasma cutting attachments and is operated via a tablet with custom easy-to-use software made for the field. It mounts directly to equipment and material so operators can access precision anywhere it's needed.

Technology Readiness Level (TRL): 9
Manufacturing Readiness Level (MRL): 9
Technical Approach: We interviewed dozens of welders and field operators to learn the requirements and level of complexity for this product. Through our customers, we learn more applications and software enhancements daily that are driven directly into our product and software development plan.

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