

# Amulet

## Customer Success Story: Leading Industrial Equipment Manufacturer

With a commanding presence in plasma and oxy-fuel cutting, as well as brazing and soldering alloys, the company is recognized for its cutting-edge work in automation engineering and software development. Operating across numerous manufacturing sites and system integration locations worldwide, it is supported by a robust distributor network and sales offices serving customers in over 160 countries.

### Challenge

The company faced an urgent and complex challenge in **developing a handheld remote control pendant with an advanced graphical user interface** for a series of their robotic welding machines.

The interface had to be engineered to perform flawlessly in harsh industrial environments, where operators wear protective gear and goggles. The pendant needed to be highly customizable for a wide range of applications,

yet intuitive enough to minimize training requirements and reduce reliance on operator skill.

At the same time, it was critical to maintain the highest standards of performance quality, ensuring that the interface supported consistent, high-level operation under demanding conditions.

### Solution

In response to this challenge, the company partnered with Amulet Technologies to design an industrial pendant system. Utilizing Amulet's innovative software development platform, a robust, interactive UI hardware solution was created that operates without the need for a touchscreen, making it ideally suited for harsh industrial environments.

**Innovation in Design:** The design team focused on creating a solution that met the specific needs of workers in challenging industrial conditions. The user interface was designed to be operated with physical buttons and navigation controls, making it ideal for operators wearing gloves or working in environments with oily, greasy, or other harsh conditions. Additionally, the platform's flexibility allowed for the pendant to be customized for various specialized applications, thereby enhancing adaptability across multiple industrial scenarios.

**Implementation:** The implementation phase involved extensive testing to ensure the pendant could endure the harsh environments in which the company's products are used. Training programs were also developed to ensure a smooth transition for operators, improving both operational efficiency and product quality.



# Results

The new pendant system has dramatically improved the company's customers' operational processes by:

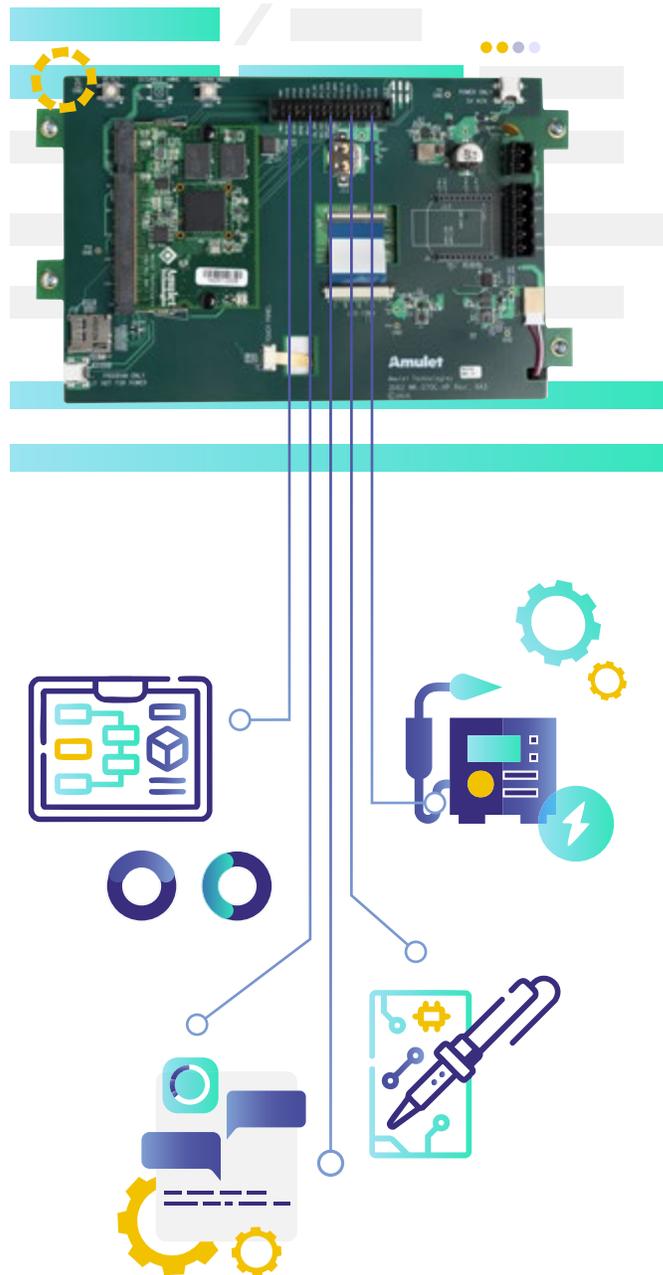
**Enhancing Operational Efficiency:** Reducing the training time required for new operators, speeding up the time to productivity.

**Improving Performance Quality:** Maintaining consistent high-quality results, thanks to precise control over operational parameters enabled by the new user interface.

*"The new pendant system has transformed our operations. **Our team can now consistently achieve high-quality results across a wide range of applications.** The system's intuitive and adaptable interface has significantly reduced our training needs and improved operational flexibility,"* said a senior executive.

## Key Takeaways

This project highlights the critical role of intuitive UI design in industrial equipment. By focusing on user accessibility and adaptability, the company has enhanced efficiency, improved product quality, and increased operational flexibility, positioning itself to meet the evolving demands of modern industrial environments.



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## Next Steps

For inquiries about how Amulet Technologies can support your development needs, contact us at **(408) 374-4956** or **schedule a demo** today.

Transform your product development journey with our industry-leading solutions.

