

FLATWORLD PROVIDED MEP SERVICE SUPPORT FOR ELECTRICAL AND PLUMBING LAYOUTS TO AN INDUSTRIAL INSTRUMENTS DISTRIBUTOR



The Client

The client is based in the United States (Irvine, California) and distributes industrial products with a focus on reliability, accuracy, and precision. A well-known distribution example is one of the fastest ducting solutions in the world. The client has a 15-year track record that includes consulting for mechanical, electrical, and plumbing (MEP) projects. They also specialize in integrated and custom assemblies for original equipment manufacturers (OEM).

Challenges Faced by the Client

The client needed service support involving MEP requirements for plumbing and electrical layouts within a 3-storey building with 150,000 square feet. One project requirement was conversion of electrical single-line diagrams (SLD) and hand sketches to AutoCAD layouts. Another major requirement was avoiding clash with other services.

The project involved the following challenges -

- + Lack of sufficient information
- + Unclear instructions
- + The number of drawings needed required more time than initially available

FWS' Solution

Flatworld Solutions mechanical engineering specialists developed the following solution to complete the project -

- + A team including a project manager, a team leader, and three mechanical engineers was created
- + The hand sketches and SLD drawings with architectural layouts that needed to be converted by the team to AutoCAD files were collected from the client
- + At an early point, the team highlighted unclear initial instructions and the lack of sufficient information provided by the client. Out of these discussions came project templates and new instructions
- + There were three different templates in the project and three different sets of drawings were developed with a specific template
- + Until the templates were created, the work consumed more time than expected
- + The initial shortage of time for completing the project was addressed by scaling up the team and creating the templates for improved time efficiency
- + The project manager ensured that quality standards were met and in accordance with client instructions
- + Project files were delivered via secured Dropbox to preserve data privacy

The Results

This MEP project illustrates that mechanical engineering and drafting tasks are frequently impacted by multiple challenges that were not initially anticipated. The dedicated and experienced team at Flatworld Solutions is accustomed to developing practical and cost-effective solutions that allow us to get the job done. Our satisfied clients include individual builders and architects as well as Fortune 1000 companies.

Partner with Flatworld for Quick & Efficient MEP Services

At Flatworld Solutions, we are a leading provider of quick and efficient [MEP services](#) to global clients across various industry sectors. Being in the industry for over 16 years now, we carry rich multi-domain industry experience and can precisely cater to the complex requirements of our clients. We also provide [3D modeling and drafting](#), [CAD conversion and migration](#), [piping design and drafting](#) services, etc.

When you need high-quality, cost-effective and time-sensitive help with engineering services, just [get in touch](#) with us.