FC SOLUTIONS · CAPABILITY STATEMENT

Fabiano Oliveira

Electrical Panel Design Engineer · Schematics, Layout, BOM, Estimating

> I design control panels that the shop can build without calling me.

Weymouth, MA | (857) 260-3130 | fabiano@fccontrolsolutions.com | Upwork profile

~50%
less assembly time per panel on repeat models

1,400+
quote requests from 380+ clients on the standard I created

260+
project files: VFD, switchgear, solar and OEM panels

15
people led as Operations Manager at a panel shop

WHO I AM

Electrical engineer (UTFPR, Brazil) with an electrotechnical diploma. I spent 3 years at a control panel shop in Brazil, going from the assembly floor to Operations Manager. In the U.S. since 2022: solar, pool automation, smart home/low voltage, construction, and most recently Assistant PM/Estimator at a foundations contractor.

WHAT I'VE DONE

- **Panel shop operations:** grew from production to Operations Manager, leading a team of up to 15.
- **Assembly line redesign:** cut assembly time per panel by about half on repeat models (12.8 h → 6.35 h).
- **Estimating:** I prepared every quote myself until I left (100 RFQs, 787 panels, 47 clients in my last six months). The shop has since handled 1,400+ quote requests from 380+ clients on the standard I created.
- **Standards that outlived me:** the SOPs, databook template and design library I built are still in use today.
- **260+ project files:** crane and hoist VFD panels, a hospital main LV switchboard, solar plant panels, OEM machine panels.
- **Process automation:** at my last job I rebuilt the company's project, client and financial history from ~80 scattered documents into one system and automated estimates and expense tracking.

INDUSTRIES SERVED

Control panel projects for:

- Industrial machinery & OEM equipment
- Water & wastewater utilities
- Solar PV plants & EPC firms
- Substations & utilities
- Hospitals & healthcare
- Cranes & material handling
- Ports & marine equipment

WHAT I OFFER

Support for OEMs, machine builders, integrators, panel builders and fabricators:

- Electrical schematics, panel layouts, BOMs, wire and terminal lists
- Panel assembly and wiring: prototypes, small batches and overflow, priced per panel
- Estimating and quoting support
- PDF/markup → CAD conversion, as-builts, technical documentation
- Shop organization: SOPs, kitting, test checklists, process improvement

HOW TO WORK WITH ME

Directly with FC Solutions (registered in Massachusetts, own EIN): fixed-price or hourly contracts, invoiced by the company. No payroll and no employment paperwork on your side.

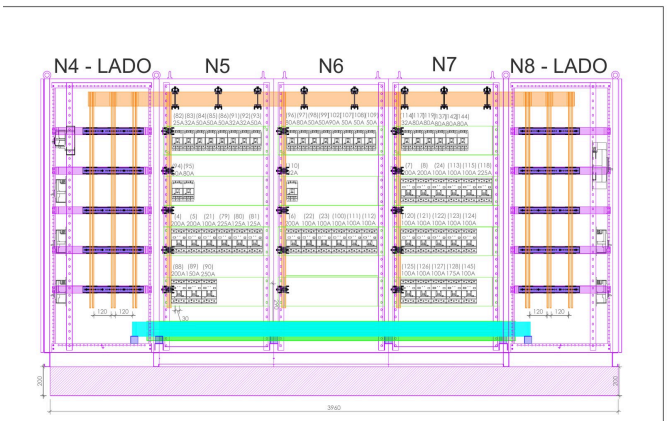
Or through Upwork, if you prefer a platform, with payment protection for both sides.

> **Open to small, fixed-scope pilot projects.** If your team is short on design, assembly, quoting or documentation capacity, I'd be glad to talk.

Selected work



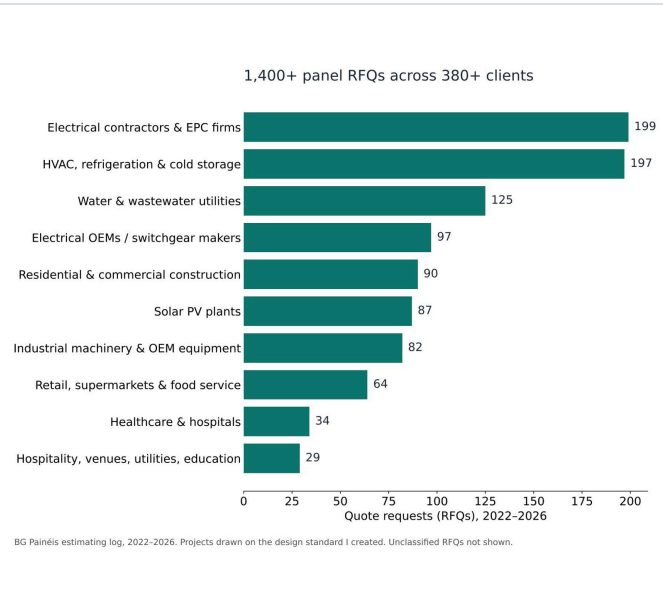
OEM machine control panels: series production, installed on the customer's machine



Hospital main LV switchboard: 11 sections, busbar and breaker layout



Solar plant auxiliary panels: standardized panel families for utility-scale plants



Design and estimating standard: 1,400+ RFQs from 380+ clients

SEE MORE

10 projects with drawings and photos on my **Upwork portfolio**. A full 13-page project portfolio is available on request.

Client names are withheld; photos and drawings are shown with the shop's permission.

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