

## Contact

cata.mandrusca@gmail.com

[www.linkedin.com/in/catalin-mandrusca-b94997151](https://www.linkedin.com/in/catalin-mandrusca-b94997151) (LinkedIn)

## Top Skills

Calculations

Voltage

Electrical Design

## Languages

German (Elementary)

English

# Catalin Mandrusca

Hardware Lead Engineer at Emerson Automation Solutions/E&I HW  
Lead Engineer at Emerson Automation Solutions  
Cluj, Romania

## Summary

Experienced Hardware Specialist with a demonstrated history of working in the industrial automation industry. Skilled in AutoCAD, SolidWorks, LabVIEW, Edge, and COMSOL. Strong arts and design professional with a Bachelor's degree focused in Electrical and Electronics Engineering from Technical University of Cluj Napoca.

## Experience

Emerson

7 years 8 months

E&I Hardware Lead Engineer

February 2025 - Present (7 months)

Cluj, România

Senior Hardware Design Engineer

February 2023 - March 2025 (2 years 2 months)

Cluj, România

Hardware Design Engineer/ E&I HW Engineer

September 2019 - February 2023 (3 years 6 months)

Cluj, Romania

- Responsible for the hardware design in close cooperation with the Hardware Leader and Project Manager;
- Coordinate and support the hardware activities of the FSO project team;
- Coordinate and support the hardware implementation activities with cabinet builders;
- Coordination of activities with regard to hardware FAT;
- Initiate the customer clarification requests and the deviation forms;
- Report weekly on the progress and follow the hours budget according to the project schedule;
- The responsibility as HW designer on small to large projects;
- Review the Bill Of Material and initiate the procurement of materials(cabinet, Buy-out and DeltaV product);

- Provide sales support with technical solutions and budget estimates;
- Applying engineering standards to ensure that uniformity and quality improve within projects;
- Report the progress on a regular basis and follow the design and engineering hours budget according to the project schedule;
- Follow the Project Management Office working methods, procedures, tools, and identify areas of improvement where needed;
- Promote the use of configured cabinets when applicable and provide feedback to the sales team;
- Ensuring hardware design is in conformity with customer and industry standards;

**Junior Hardware Design Engineer**  
January 2018 - September 2019 (1 year 9 months)  
Cluj County, Romania

**Unicool**  
**Technician**  
June 2016 - September 2016 (4 months)  
Cluj County, Romania

**Quantic Lab**  
**QA Tester**  
June 2014 - September 2014 (4 months)  
Cluj County, Romania

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## Education

**Technical University of Cluj Napoca**  
Master's degree , Electrical and Electronics Engineering · (2017 - 2019)

**Technical University of Cluj Napoca**  
Bachelor's degree, Electrical and Electronics Engineering · (2013 - 2017)

**Technical College "Energetic" Cluj-Napoca**  
Electrical Engineering Technologies/Technicians · (2009 - 2013)