# OGBONNAH CHINEMEREM

AUTOMATION AND ROBOTICS ENGINEERING STUDENT

## CONTACT

Open to internship opportunities and collaborations in automation, robotics, and control engineering.


+358 465433500

chinemeremogbonnah2@gmail.com

merem.lovable.app

linkedin.com/in/meremo

40640, Jyväskylä


## LANGUAGE

- English
- Finnish (Basic *Intermediate*)

## PERSONAL SKILLS

- Teamwork
- Creative and Innovative thinking
- Attention to detail
- Proper work ethic
- Problem Solving
- Communication
- Time Management

## REFERENCES

**Anna Tenhunen**
Talent Boost Coordinator
**Phone:** +358 504112215
**Email :** anna.tenhunen@jamk.fi

**Victor Solovev**
UMT Victor
**Email :** victor.solovev@umtvictor.fi



## MY PROFILE

Third year Automation and Robotics student with an interest in taking creative and innovative approaches to solving problems and a strong team player. Experience working on multiple academic and personal projects. Actively learning to broaden current skills, open to feedback, and motivated to learn from professionals in the industry. Experience using industrial automation software such as Siemens TIA Portal and the Beckhoff TwinCAT environment.

## TECHNICAL SKILLS

- PLC Programming (Ladder Logic, FBD, SFC)
- Siemens TIA Portal
- Logical Controls
- Basic Control Systems
- PID Tuning
- HMI Development
- SCADA Systems
- Siemens WinCC
- DCS Systems (Valmet DNA)
- Industrial Communication Protocols (PROFIBUS / PROFINET, Modbus TCP, AS-i Bus)
- IT & Industrial Data Network Basics
- Process Engineering
- Field Instrumentation Planning
- Risk & Hazard Analysis
- Safety Planning & Design
- Safety Standards (IEC / ISO / Functional Safety concepts)
- Python
- C# Programming
- MATLAB
- LabVIEW
- Visual Components (Simulation & Virtual Commissioning)
- AutoCAD
- Microsoft Office 365
- GitHub (Version Control Environment)

## EDUCATION

**JAMK University of Applied Sciences** *2023 - 2027*
Bachelors in Automation and Robotics

**Deeper Life High School** *2016 - 2022*
High School Diploma

## ACADEMIC PROJECTS

- Planned and created a PLC program for a pumping module using on/off valves, pressure and temperature sensors, AS-i bus communication, VFDs, and PID controllers us
- Used Valmet DNA to create basic loops for a process using pumps, transmitters, and on-off valves while implementing PIDs, interlocks, and cascade and ratio controllers.
- Built HMI and SCADA programs for a pumping module using WinCC
- Analysed and troubleshot digital circuits and PLC programs to locate faults and correct them.
- Modelled basic processes as transfer functions in MATLAB, tuned the system, and worked with ratio control and cascade control.
- Field devices planning and documentation, including creating I/O lists, wiring and circuit diagrams, cross-connection tables, field cabinet layouts and necessary modifications and accessories.
- Sizing and selecting motors and valves using software such as the Valmet NelProf tool and the ABB Drive Size tool.
- Built and configured network structures in a virtual environment, including routing, switching, firewalls, and IPv4/IPv6 addressing.
- Learned and applied safety standards and directives.
- Created a C# GUI program to work using the Modbus TCP communication protocol.
- Performed hazard and risk analysis on a robot cell in a laboratory environment.
- Planned and modeled a simulated warehouse in Visual Components. Programmed two robots to perform palletizing and pick-and-place operations, integrated safety devices, and defined storage, sorting, and transport zones using process nodes..
- Programmed a MIR robot to map out a laboratory environment, assigned safety and operational zones, localize charging zones and carry out basic navigation missions
- Programmed a Universal Robot, using pre-configured positions to place a workpiece onto a designated board.

## PERSONAL PROJECTS

- Event Logger in Beckhoff TwinCAT using STL, STRUCT and Enum data types
- Basic Object sorting based on the characteristics of the material using Tia Portal sequential function chart (Simulated)
- Multiwindow C# GUI that communicates using Modbus TCP protocol to send and receive data from and to specific byte addresses

## CERTIFICATION

**Autonomous Navigation**
MIR Academy

**Mission Programming**
MIR Academy

**CB-3 e-Learning**
Universal Robotics Academy

**Personnel Safety**
MIR Academy

## CURRENTLY LEARNING

- OPC UA
- PLC Programming in STL
- Beckhoff TwinCat Environment
- Python Programming Language
- Improving my Valmet DNA skills
- Improving my PID-Tuning methods and design and control system skills
- Basics Model Predictive Control
- Machine Vision
- AVEVA Intouch
- Industrial Robotics
- Robot Programming
- Robot Cell Planning and Design
- Engineering Project Economics

## WORK EXPERIENCE

**Talent Boost Intern** *Aug 2025 - Dec 2025*
**JAMK**

Supported event planning and generated ideas to help improve student adaptation to the Finnish working life.

**Marketing Intern** *Nov 2024 - Mar 2025*
**UMT Victor**

Developed creative marketing campaign ideas to drive fan engagement and created posters, videos and designs using WordPress, Premiere Pro, and Photoshop for clients.

**Viitasaari Hackathon** *May & Sept 2025*

Worked in a team to develop solutions for real company cases, presented our progress to the company at regular intervals, and gathered feedback to keep the solution on track.

**Media Club** *2019 - 2022*
**Deeper Life High School**

Assisted the media team with setting up equipment for events and solving technical issues during the event, using temporary fixes when needed until proper repairs could be made.