

# UCHECHUKWU AJUONUMA

Mechanical Designer

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 232 Bayview Street, SW, Airdrie, AB

## EXPERIENCE

### Mechanical Engineer

Solomento Auto Center

~ 11/2018 - 01/2020 + Plot C37/C38 Housing Area W, Owerri, Nigeria

Solomento Auto Center is an ultra-modern auto servicing center with state-of-art facilities, located in the capital city of Imo State, Nigeria.

- Successfully designed the workshop layout from scratch using the world best modern and eco-friendly automobile servicing line plan.
- Installed new equipment that met clean modern workshop floor organization and enhanced easy workflow.
- Constantly trained the on-boarding technical team on the use of modern diagnostic tools in the automobile servicing workshops.
- Designed - using SolidWorks - locally made replacement parts that made the company the first to be involved in the local auto part fabrication in Owerri.
- Installed and trained the technical team on the operation of computer- controlled industrial equipment.
- Led the recruitment process of the technical team that brought on board the best mechanics and technicians to the company.

### Country Manager

Youth for Technology Foundation (YTF)

~ 10/2014 - 11/2018 + Plot 70 Area N, World Bank Estate, Owerri, Nigeria

*YTF is an international non-profit organization that empowers youth at the intersection of education and entrepreneurship, using technology as enabler.*

- Introduced 5 new brands and set up a procedure of attaining success through them.
- Installed 100% of the new CNC machines, 3D printers, laser cutters, etc., across different higher institutions in Nigeria.
- Trained 6000+ youths on the use of cutting-edge tools and software such as CNCs, 3D printers, SolidWorks, AutoCAD, etc., in less than 4 years.

## TOP SKILLS

SolidWorks



AutoCAD



Computer Aided Manufacturing (CAM)



## MOST PROUD OF



### Experience

- Vast experience in product designing, design thinking, brand development, high-skill training, strategies & goals
- Promoted to the position of a Country Manager in less than one year of my engagement at YTF based on performance.



### Designed a Wireless Hairdryer

Designed and developed the first made in Nigeria wireless hairdryer for a client two years after my graduation.

## STRENGTHS



### Statistical Software

R, Python, Excel, MS Office



### Design Software

Solid Works, Autodesk Inventor,

AutoCAD, Fusion 360, Inkscape.

- Filed 2 patents, born out of the hackathon I organized in 2017 and 2018
- Created extra means of sustenance for YTF by introducing design consultancy and 3D printing services into its for-profit programming.
- Grew the team size by 120% in less than 4 years.
- Designed, fabricated and delivered over 100 new products in less than 2 years.
- Closed over 85% of the deals on my table both with small businesses and conglomerates like HP, Uber, Autodesk, MasterCard, GE, etc.

## ⚡ Strengths

Communication and problem-solving skills, team worker, empathy, proactive, sense of urgency, technical writing, results oriented and continuous improvement focus.

## HIGHLIGHTS

- Lathe/Milling Machines
- CNC Machines
- Finite Element Analysis (FEA)
- Welding/Fabrication
- Rapid Prototyping
- CAD and CAM expertise
- Failure Analysis
- Schematic Development
- ANSYS Workbench
- Engineering Documents Reading
- Qualitative Problem Solving
- Effective Communication
- Blueprint Reading
- Laser cutting & Engraving
- 3D-printing (Rapid Prototyping)
- Production Line Controls
- Cost Analysis
- Problem Solving Skill

## Lead Product Designer

FlowMasters Ltd

~ 08/2009 - 10/2014

+ Shop 110/113 Mile 3 Building Material Mkt, Port Harcourt, Nigeria

*FlowMasters Ltd is a midstream mechanical engineering company located in the oil city of Nigeria.*

- Enhanced the workflow by 30%.
- Introduced Fanuc CNC 3-axis Vertical Machine to the production line.
- Designed new and existing fittings in compliance to the company's standard using SolidWorks.
- Experienced with blueprint reading and interpretations, DG&T codes and standards
- Introduced and used 3D Printing technology daily as part of the prototyping process for products I designed.
- Examined over 75% of the designs for conformity and errors.
- Worked with oil & gas servicing customers to understand requirements and provide exceptional fittings and part enhancement service.
- Introduced the use of design thinking in understanding customer's needs and coordinated designs with other departments.
- Drove fitting and turning operational improvements that resulted in significant savings and improved profit margins.
- Efficiently executed the major plumbing design and calculations works for the top projects.

## EDUCATION

**Bachelor of Engineering (Mechanical)**

Imo State University, Owerri, Nigeria.

~ 10/2007 - 12/2012.