

## Tala Osmond Nchamukong

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### Undergraduate Computer & Electrical Engineering

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#### EDUCATION

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##### University of Michigan-Dearborn, Dearborn, MI

Degree expected: April 2014

Bachelor of Science in Engineering– GPA: 3.2

Major: Computer Engineering, Electrical Engineering

Minor: French

- Introduction to microprocessors – Introduced the concepts of processors and memory.
  - Realize functions and use Xilinx to load design onto cool runner II-X board.
  - Program in assembly language using the HC11 evaluation board.
  - Implementation of switching functions, decoders, universal gates, multiplexers, and encoders.
- Computer Methods 1, 2 – Completed various assignments in C/C++. Learned concepts such as: structure, pointers, Stack, Queue, memory allocation, file I/O, command line arguments, binary trees, search algorithms, Huffman code, etc.
- Electronic Circuits I, Elec. Devices & Materials-Review circuit theories and elements, analyze operational amplifiers as circuit elements, semiconductor diodes, PN junctions, MOSFET transistors, BJTs, crystal, properties of micro-electronic devices, etc.
- Notable projects
  - Design and build a Rube Goldberg machine
  - Design a 7-segment LED display driver circuit (digital logic)

##### Technical Skills

- Programming languages: C++, C.
- Notable software: CANoe, GENy, PSpice 9.1, Xilinx ISE 10.2, CodeBlocks, Dev-C++, Formstack, Windows/Linux OS, Adobe Photoshop CS5, Adobe InDesign CS5, Adobe Illustrator CS5, Microsoft Word, PowerPoint, Excel, Publisher.
- Hardware: MCU, MPU, Electrical boards, Oscilloscope, Multimeter, Analog meter.
- Devices: Resistors, Capacitors, Inductors, Transformers, Op-Amps, Diodes, and MOSFET Transistors.

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#### EXPERIENCE

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##### Software Integrator/Co-op

Vector CANtech, Novi, MI

2013 to Present

- Work with state-of-the-art measurement and calibration tools, low and high speed interfaces for CAN and LIN. Use GENy, CANoe, Test Suites, and other database applications to integrate and test projects with customer provided microcontrollers from the V850, RX, 78K family etc. Implement OEM specifications for Network Management, Transport Protocol, Diagnostics, Physical & Application layers etc.

##### Lead Student Front Desk/Financial Assistant

University of Michigan-Dearborn, Dearborn, MI

2011 to 2012

- Provide outstanding customer service, Answer phone calls, Maintain and utilize Konica Minolta printer for faxing, Copying, Scanning to email etc., Create PowerPoint presentation, Report to staff meetings, Exhibit leadership role among student staff, Send out weekly updates and other reminders, Run budget reports, File documents, Bill accounts, Effectively manage and prioritize multiple tasks to complete in a timely manner, Design online intake form, Design flyers, Organize office, work on special projects (Student Food Pantry, TurboVote, etc.) Assist professional staff with other duties.

##### Student Graphic Assistant

University of Michigan-Dearborn, Dearborn, MI

2010 to 2011

- Print and hang banners in a timely fashion to meet customer deadlines, Post and take down flyers around campus, Design flyers, Record billings, Answer phone calls, and Utilize innovative ways to market information.

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#### OTHER

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##### Awards

Henry Pattern Scholarship I

Fall 2010 to 2012

Service Learning Certificate

2011/2012

French Honors

2010/2011

##### Languages

English, French, and Pidgin English

**Affiliation and Activities**

- Institute of Electrical and Electronics Engineers (IEEE) Fall 2011 to Present
- Robotics Club Winter 2012 to Present
- Tennis Club August 2011 to 2012
  - Co-Founder
  - Public Relations Chair
- Blueprints Leadership Program Incomplete

**Volunteer Work**

- 2013: Alternative Spring Break Schaumburg, IL (Advance Preschool).  
2012: MLK Service Day, Ruth Ellis Center, Alternative Weekend Service Project Chicago  
2011: 911 Day of Service, World Medical Relief, MCC Service Camp, Arts and Scraps, Focus: Hope.  
2010: Wixom Elementary (Tutoring), Walled Lake Western Library (Tutoring)

Reference: Amy Karaban, Assistant Director of Student Activities Office, University of Michigan-Dearborn  
Student Activities Office Phone: (313) 593-5390