Samuel G. Tekle

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SKILLS

- *Java, Python, MYSQL, Thymeleaf, Spring Boot, HTML, CSS, Flask, MATLAB, MATHCAD, C, C++, Visual Basic*
- Simulation and design tools: *Simulink, PSPICE, MPLAB*
- Embedded systems design using microcontrollers and microprocessors
- MS Office, LaTeX

PROJECT EXPERIENCE

Course Project at LaunchCode, Summer 2018
- Web app development for children ministry at RWEC

Energy Cost and PAR minimization for Multi-Source Power Network
- Researched project using MATLAB for an optimization scheme on energy consumption.
- **Publication**: Samuel Ghebremariam, Sajjad Beygi, Hamid Reza Bahrami, Yilmaz Sozer and Hamed Mohsenian-Rad "*Energy Cost and PAR minimization for Multi-Source Power Network*", *IEEE PES*–Jan 2012.

WORK EXPERIENCE

WEG Transformers USA (formerly CG Power Systems)   Washington, MO
Design Electrical Engineer   Aug 2012 – Present
- Designing and quoting oil immersed medium power transformers with De-energized Tap Changer (DETC) and Load Tap Changer (LTC).
- Overseeing the whole design process as a **Project Engineer** of a transformer design project with three team members

The University of Akron,   Akron, Ohio
Graduate Research Assistant   Sept 2010 – July 2012
- Research and development of an optimization scheme for cost minimization in Smart Grid System
- Prepared and published an IEEE paper for conference proceeding (PES Innovative Smart Grid Technologies Conference Jan 2012).

University of Asmara   Asmara, Eritrea
Adjunct Instructor   July 2006 – July 2009
- Taught electrical engineering courses like Digital Electronics, Analog Electronics, Microprocessors and Power Electronics
- Advising undergraduate students in their final year projects

EDUCATION

LaunchCode, LC101   *Winter 2018*   St Louis, MO
- Part time, 20 week programming course on Python, HTML, CSS, MySQL and Java
- Developing a web application.
- Recently taking a Liftoff Class with LaunchCode .

The University of Akron   Akron, OH
Master of Science: Electrical Engineering   *Jan 2010 – May 2012*

University of Asmara   Asmara, Eritrea
Bachelors of Science: Electrical Engineering   *Sept 2001 – July 2006*