

Alemnew Sheferaw Asrese

Education

- 2014 – **Doctoral Candidate in Networking Technology**, *Aalto University, Finland*.
Dissertation: Quality of Experience (QoE) Inference for Web Applications based upon Active Network Measurement
Advisors: Jörg Ott and Pasi Sarolahti
- 2011 – 2014 **M.Sc. in Computer Science**, *University of Trento, Italy*, GPA – 99/110.
Thesis: Design and Development of Dynamic Fleet Management System Prototype
Advisor: Alberto Montresor
- 2007 – 2010 **B.Sc. in Information Science**, *Adama University, Ethiopia*, GPA: 3.9/4.0.
Thesis: Online Voting System for National Electoral Board of Ethiopia.
Advisor: Belayneh Mengistu

Work Experience

- 2014 – **Doctoral Candidate & Researcher**, AALTO UNIVERSITY, Espoo, Finland.
- Researched factors that affect and measured Web Performance and Quality of Experience.
- Developed Web Performance and QoE measurement tool.
- Performed technical presentations at international conferences and seminars.
- 2013 – 2014 **Software Developer –Intern**, NEC LABORATORIES EUROPE, Germany.
- Designed and implemented algorithms for dynamic fleet management system.
- Designed and implemented a communication platform for electric vehicles by extending the C2X-sdk functionality for car to car and car to infrastructure communication.
- Mar – Jul 2012 **Web Developer & Programmer**, GREENPREFAB, Rovereto, Italy.
- Designed and implemented a cloud-based solution and web portal for civil engineers and architects to do green building rendering and energy efficiency simulation.

Skills

- Programming in Java, Python, JavaScript, Android, Shell
- Data analysis and visualization in Python
- Good knowledge of computer networks and internet protocol
- Good technical presentation
- Fluent in English

Selected Projects

- WebLAR: Measuring Web Latency, ATF, and Rendering
- WePR: Web performance and rendering measurement system
- Bilingual Malaria Expert System using Java and HTML
- Library Management System using JEE framework

Selected Publications

- A. S. Asrese, et. al. Measuring Web Latency and Beyond: Methods, Tools & Longitudinal Dataset. IEEE TNSM, June 2019.
- A.S. Asrese, et. al. Measuring Web Quality of Experience in Cellular Networks. PAM 2019.
- D. N. da Hora, A. S. Asrese, et. al. Narrowing the gap between QoE and QoS metrics for Web applications. PAM 2018.