Henok Shiferaw

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Basic Info

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- PhD Candidate In Computational Science and Engineering at NC A&T State University, focusing advanced computational modeling, simulation and visualization and providing computational solutions to problems of high dimensions or involving large datasets.
- Primary Patent Examiner at the United States Patent & Trademark Office to examine or review the application of patent and determine whether the innovation or idea qualifies.

Professional Experience and Significant Achievements

2017–Present | **PRIMARY PATENT EXAMINER**
United States Patent & Trademark Office

- Successfully managed large case docket, while consistently exceeding productivity requirements.
- collaborated with supervisors and colleagues to interpret and apply appropriate legal statutes.
- worked independently to evaluate patent applications in the Network Printing, Scanning, Color, Halftone, Image Analysis, Data Compression, Data Analysis, Data Encryption, Barcode Symbology, FAX/PRINTER/SCANNER Technology and Display System arts for compliance with federal patent laws and regulations.
- Worked independently to discuss and negotiate with the applicant and patent attorney to resolve any matters raised in the final report.
- Communicated results of prior art searches with applicants both orally and writing to facilitate compact prosecution of patent applications.
- Simultaneously organized and prioritized multiple applications to meet both Production and Docket Management goals and deadlines (+110% Production).
- Ability to efficiently digest large volumes of scientific information, in order to make timely decisions regarding patentability of an application.

2012–2017 | **PATENT EXAMINER**
United States Patent & Trademark Office

- Examined applications and intermediated with patent attorneys to grant or deny patents.
- Focus on Network Printing, Scanning, Color, Halftone, Image Analysis, Data Compression, Data Analysis, Data Encryption, Barcode Symbology, FAX/PRINTER/SCANNER Technology and Display System.
- Worked independently to evaluate patent applications in the Network Printing, Scanning, Color, Halftone, Image Analysis, Data Compression, Data Analysis, Data Encryption, Barcode Symbology, FAX/PRINTER/SCANNER Technology and Display System arts for compliance with federal patent laws and regulations.
- Training in case law, examination, claim interpretation, restrictions, utility, appeals and appeal briefs, double patenting, 35 U.S.C. 102, 103, and 112, and MPEP. Researched invention to determine whether it was novel or already in existence.
- Applied aspects of procedural, substantial, case and statutory law to the Patent Examination process.

- Received training in CDMA, TDMA, FDMA, OFDMA, 3G, 4G and LTE technology throughout career.
- Effectively interfaced with internal/external customers daily.

2007–2012 | **LICENSING ASSOCIATE**
North Carolina A&T State UniversityGreensboro, NC

- Provide patent and marketing research results to the university facility, staff, and students.
- Assess research-funded technologies for their competitive advantage and commercial potential.
- Review patent application for fulfillment with all laws and regulation.
- Professionally communicate with researchers, industry experts and potential licensing companies.

2007–Present | **HANDS ON EXPERIENCE WITH MAJOR SOFTWARE**
Personal Skill Development

- Acquired Orcale, MS-SQL Server and Teradata SQL basic skills.
- Acquired LAMP Web development experience.
- Run and maintain Apache server on a VPS.
- Acquired data visualization skills coupled with which applied the courses I took in graduate studies.
- Current member of the Apple Beta Software Developer Program for iOS and MacOS.

Institution

2012–2022 | **Ph.D. Candidate Computational Science and Engineering**
North Carolina A&T State University, Greensboro, NC Focusing on advanced computational modeling, simulation and visualization.

2009–2012 | **M.S. Computational Science and Engineering**
North Carolina A&T State University, Greensboro, NC Mastering high-performance computer programming tools as methods, as well as the acquisition, processing and analysis of large datasets.

2005–2009 | **B.S. Manufacturing System/Engineering**
North Carolina A&T State University, Greensboro, NC Strong understanding of engineering fundamentals across many areas (physics, chemistry, energy, power).

Research Paper and Publications

2012 | **Probabilistic analysis of property uncertainties using resin infusion flow modeling and simulations – resin viscosity and preform permeability.**
Master Thesis: North Carolina A&T State University

2015 | **Statistical Analysis of Uncertainties in Deterministic Computational Modeling – Application to Composite Process Resin Infusion Flow Model** PDF
Taylor & Francis

Skils

Computer OS | Windows Server, Various flavors of Unix and Linux, Mac OS X.

Programming | Python, BASH, HTML, PHP, Matlab, Mathematica

Databases	Oracle, SQL Server, MySQL, Teradata, MS-Access
Productivity	Microsoft Office (Word, Excel, and PowerPoint), SharePoint, Microsoft Project, Microsoft Visio, SPSS, Mathematica, MATLAB.
Methodology	Lean Manufacturing, Six Sigma, Enterprise Resource Planning (ERP), and Supply Chain.
Others	Statistical Process Control, OSHA, AutoCAD, Solidworks, Programmable Logic Controller (PLC), Power Technology, Parametric Modeling, Blueprint Reading, Geometric Tolerance andimensioning, Macromedia 8, COMSOL, ANSYS, AVS/Express, Supply Chain, ERP.

Languages

Machine	Python, Perl, R, PHP, Matlab/GNU Octave, bash/shell, some superficial knowledge of C, common LISP and Haskell; markup languages including LaTeX/XeLaTeX, R Markdown, HTML, CSS.
Human	English and Amharic

Awards and Achievements

Passed USPTO Partial and Full Sig Program
Passed USPTO Proficiency Exam
Five Consecutive year 110% Prod & DM
Lean Manufacturing (John Deer)
Six Sigma (Green Belt Certification)
Caterpillar Schplarship Recipient

Tools I Use

Usual Workflow

I use a **vim**-based setup in a tiling window manager (**i3-gaps**). I compile documents using **R Markdown** or **LaTeX**, and **biber** for references. I prefer to do multimedia manipulation in the terminal with tools like **imagemagick** and **ffmpeg** for extensibility's sake. I've run Microsoft, MacOS and GNU/Linux systems (both Debian and Arch-based varieties).

Programs I'm Familiar With

tmux, ssh, RStudio, Blender, Praat, Audacity, E-Prime, GIMP, pandoc, Jupyter. I've managed websites manually via ssh and vim using HTML/CSS/PHP and with tools such as Github Pages (Jekyll) WordPress via either cpanel or wp-cli.

Contact/Reference

- Email me ✉ with your interests in me and I'll refer you to someone who can vouch for me or defame me, depending on what you want.