# Kaleabe Teshome

Alexandria, VA | (703) 859-2310 | [Kaleabet@gmail.com](mailto:Kaleabet@gmail.com%20) | <https://www.linkedin.com/in/kaleabe-teshome-691420a2/>

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| EDUCATION | **Virginia Commonwealth University (VCU)**  *Bachelor of Science in Physics w/ Mechanical Engineering and Mathematics focus* | | **Richmond, VA**  *2015-2019* | |
|  | **Virginia Polytechnic and State University (VT)** | | **Blacksburg, VA** | |
| *Major: Mechanical Engineering w/ Nuclear Engineering and Green Engineering focus 2011-2015* | | | | |
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| EXPERIENCE | **Sherwin Williams Paint store** | | **Alexandria, VA** | |
|  | *Sales Associate* | | *05/2013 – 6/2018* | |

* + - Open/close store independently as well as operate the store alone on weekends
    - Color match samples based off color principles and visual awareness
    - Provide exceptional customer service to a variety of customer backgrounds
    - Constant multitasking in tandem with communication among employees

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| VOLUNTEER   * 3.2 for 32 VT Run participant 2013-2014 * JDRF 5K Run/Walk Participant 2008-2013 * INOVA Mount Vernon Hospital 2008-2011 |
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TECHNICAL

* + - Autodesk Inventor Professional (including simulation Multiphysics)
    - Mathematica
    - SynerJy program
    - Microsoft Word, Excel, PowerPoint, Project, and Outlook

FUNCTIONAL

* + - **Quantum Physics I (VCU)-** extensively studied Schrodinger’s equation/solutions, operator methods, angular momentum/conservation laws, magnetic dipole moment/spin, quantum confinement, and uncertainty principles
    - **Topics: Theory in Nanomaterials (VCU)-** Focused on jellium model, stability of clusters with emphasis on magic numbers, concept of a three-dimensional periodic table; magnetic and optical properties at the nanoscale; cluster-assembled materials; applications to sustainable energy, molecular biology, and drug design clusters forming the third dimension. In addition, articles on current nanotechnology (specifically super atoms) were read/presented monthly
    - **Senior Physics lab (VCU) -** Performed 5 labs stemming from electrical conductivity, Hall Effect, PL spectrum/intensity, PL spectrum/light interference, and light absorption/transmission. I used the optics lab (HeCd gas laser/Tungsten Halogen Lamp) at VCU and the SynerJy program to conduct the last 3 experiments. Subsequent lab reports and journal entries were required for each lab.
    - **Thermodynamics (VT) –** Extensively studied thermodynamic properties of pure substances, Laws of Thermodynamics, gas mixtures, Combustion: atom and energy balances, and power/refrigeration cycles.
    - **Fluids (VCU) –** Tested on fluid properties, statics, kinematics, dynamics, Euler's and Bernoulli's equations, hydrodynamics, laminar and turbulent flows. Boundary layer model and approximate analysis, and compressible/incompressible systems were also included
    - **Mechanical Design 1 (VT)-** Used Autodesk Inventor (including simulation Multiphysics) to address Finite Element analysis, Boundary element methods, Mesh analysis, and fatigue theories of failure.