**CONTACT INFO:** **Wilfred S. Henry III** Box 1082

Email: [PhysicsTeacher13@gmail.com](mailto:PhysicsTeacher13@gmail.com) Canonsburg, PA 15317

Phone: 724-355-4452 Fax: 877-571-0416

**OBJECTIVE:**

A challenging position, utilizing skills developed through my experience and education, with the opportunity for professional growth based on performance.

**EDUCATION:**

**2016** Western Governors University: Masters of Education: Special Education

**2010** California University of Pa: Masters of Arts: Secondary Education Physics

**2006** California University of Pa: BS Electrical Engineering Technology

**2005** California University of Pa: BA Physics

**2003** Studied Nanofabrication at Pennsylvania State University

Total Units in **Physics: 49** **Math: 74** **Electronics & Industrial: 70**

**CERTIFICATIONS:**

Secondary Education Physics 7 - 12

Secondary Education Mathematics 7 - 12

Technology Education PK - 12

Business/Computers/Information Technology PK-12

Secondary Education Chemistry 7 - 12

Secondary Education Social Studies 7 - 12

Secondary Education Biology 7 – 12

Special Education PK – 12 (pending)

**OTHER CERTIFICATIONS:**

Artificial Intelligence - Appinlabs

Nanotechnology - Appinlabs

Bioinformatics - Appinlabs

AutoCAD 2D/3D

Lifeguard - 1995

First Aid / CPR - 1995

Therapeutic Crisis Intervention - 2014

Test Administrator Training - 2014

**TEACHING EXPERIENCE:**

* Long term substitute at Pa Cyber (Midland, PA) Teaching Math, 2015 - 2016
* Teacher at Wesley Spectrum High School (Whitehall, PA) Teaching Math, 2014 - 2015
* Day to day substitute at Upper St Clair School District (Upper St.Clair, PA) 2014 to present
* Day to day substitute at Peters Township School District (McMurray, PA) 2014 to present
* Cyber School Physics Teacher at Waterfront Learning AIU3 (Homestead, PA) 2014
* Day to day substitute at Trinity School District (Washington, PA) 2012 to present
* Day to day substitute at McGuffey Middle/High School (Claysville, PA) , 2012 to present
* Long term substitute at Trinity High School (Washington, PA) - Teaching Physics, 2012
* Long term substitute at McGuffey High School (Claysville, PA) - Teaching Physics and Physical Science, 2011
* Student taught at California Area High School (California, PA) - Teaching Physics, Integrated Science I, and Principals of Technology, 2010
* Tutored students in Math, Physics, and Engineering at both Butler County Community College and California University of Pa at the professor's request, 1996 to 2010
* Judged Pennsylvania Junior Academy of Science competition 2012 - present
* Judged Odyssey of the Mind competition, 2012
* Managed & assisted at events in the regional science Olympiad, 2009

**TEACHING EQUIPMENT/SOFTWARE TRAINED TO USE:**

* Smart Board - Smart
* Symposium - Smart
* Promethium Board - Activ Inspire
* Voting Remotes - ActiVotes and ActiveXpressions
* Power School - Gradebook
* Edline - Gradebook
* Grad Point - used for individual students for credit recovery
* Microsoft Office
* Exam View - Test generator
* Document Camera
* Overhead Projector
* GeoStudio - Math simulator
* Various Calculators - Texas Instruments
* GLX: Pasco - Data Collection Unit
* Logger Pro - Data collector software
* Data Studio - Data collector software
* Virtual Chemistry Lab - simulator
* Interactive Physics - simulator
* No Limits Roller Coaster - simulator
* Autodesk Inventor - simulator
* Adobe Premiere - video editing software

**Technical Skills**

* C++
* FORTRAN
* UNIX
* WINDOWS 9X/XP/NT/7
* AUTOCAD
* BASIC
* ASSEMBLER
* Embedded Systems
* Digital Signal Processing
* Lab View
* Programmable Logic Controllers
* Circuit Design & Simulation
* Nanofabrication
* Computer Networking
* Electronics Testing
* Formal Logic
* Robotics
* Bio Informatics
* Artificial Intelligence
* Power Systems
* Instrument Design
* Wet Lab
* Antennae Design
* Photo Studio
* Solid State
* PASCAL

**LAB EQUIPMENT TRAINED TO USE:**

Digital/Analog Oscilope (**Physics/Engineering**)

Multimeter **(Physics/Engineering**)

Function Generator (**Physics/Engineering**)

Power Suply (**Physics/Engineering**)

Karl Suss MA6 Contact Aligner (**nano**)

Karl Suss MJB3 Mask Aligner (**nano**)

Nikon Stepper (**nano**)

Edwards E306A Evaporator (**nano**)

Kurt Lesker E-gun / Thermal Evaporator (**nano**)

Plasma Therm ECR-PECVD (**nano**)

Low Pressure Chemical Vapor Deposition (LPCVD) System (**nano**)

Applied Materials P5000 MERIE **nano**)

Variable Angle Ellipsometer L116C (**nano**)

Trencor Model 500 Surface Profilometer (**nano**)

JEOL JSPM-4500A Ultrahigh Vacuum Scanning Probe/SEM Microscope (**nano**)

Veeco CPII Atomic Force Microscope (**nano**)

UV-Vis Spectrometer (**nano**)

Vacuum Systems. (**nano**)

**OTHER EXPERIENCES:**

* Troubleshooting Atomic Force Microscope and other equipment in California University of Pa Nanoscience Research Group, 2000 to 2010
* Consultant to various industry and research groups performing calculations on electromagnetic fields, gravitational fields and mathematical investment models, 1994 to 2010
* Sales, Support, and Repair Associate for computers and office equipment, Silo Incorporated, 1994
* Microfilming technician for Mellon Bank (Manpower temp), 1994
* Member of software development team for IBM voice type project, 1994 to present
* Installed generators, uninterruptible power supplies and computer floors for Woodhyrst Inc, 1995

**PROJECTS WORKED ON WHILE AT COLLEGE**

* Inverted Pendulum controls project (university internal document)
* RF antenna design - signals from the NIST (university internal document)
* Micro terminal with barcode reader and Magnetic strip reader (university internal document)
* Robotics Programming for assembly line (university internal document)