

# **REGINALD HENRY**

Brooklyn, New York 11216 | Eng.Reginald.Henry@ieee.org | 718-501-5294

## **Professional Overview:**

**I have concentrated my professional working career within two fields. One field being electrical engineering and the other being education. I have found success and personal gratification, growth and achievement working in both these two noble fields of employment.**

**Sincerely,  
Reginald Henry**

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**Professional Overview** I have concentrated my professional working career within two fields. One field being *electrical engineering* and the other being *education*. I have found success and personal gratification, growth and achievement working in both these two noble fields of employment.

## Educational Instructor (Private Contracting)

- Aug 2011 - Present

Provide educational (Basic Computer Science Technology, IT and Mathematical Skills Development) instruction to local elementary and intermediate school students.

## Experience

### Vicon Industries (Security and Surveillance Systems Manufacturer) Inc., Hauppauge, New York - Mar 2001 - July '11

#### Electromagnetic Compliance (EMC) Engineering (FCC/ UL/ CE),

Electrical Engineer, Responsibilities Includes (but not limited to the following): **FCC/CE Compliance Testing** for all Vicon's **Surveillance/Security and CCTV Manufactured Products, ITE and CCTV equipment**. Manage and oversee **outsourced samples submittals for CE and UL Safety Testing and Canadian Compliance Standard. Inspection of newly installed Fixed/PTZ infrared network IP Megapixels Indoor Outdoor Digital cameras, monitors and data recorders**. Scheduling of sampled submittals performed with the use of Milestone Spread Sheet Tracker. **Performed Electromagnetic Compliance testing** for both the USA (FCC) and the EU (CE), this Includes: **FCC testing for Radiated and Conducted Emissions, i.e. FCC Part 15 Subpart B, Class A, GTEM (Gigahertz Transverse Electro-Magnetic) Cell used for Radiated and Conducted Emissions and Radiated and Conducted Immunity FCC/ CE Tests**. Managed **ENTIRE UL LISTED PRODUCTS LINE** and external OATS (RETLIF and or Dayton T. Brown TESTING LABs. Made decisions on which product model number and software rev would be the best sample/representative to submit to cover the largest part of the product line equivalent. Was able to reduce the cost multiple sample submittals and testing and in doing so reduced the total cost of LISTING our UL LISTED Products. **CE and FCC Test Reports. Created a traceability scheme for UL LISTED Products containing "critical" components** and in doing so reduced the number of non-conforming notices from UL reducing the cost of maintaining the listing of a product. Managed several outsourced production sites for Vicon (in USA and Korea) to ensure uniformity protocol established by me for CE AND UL (including UL Site Inspection preparations) Compliancy through self-imposed "action items".

### United States Army, Fort Monmouth, Eatontown, New Jersey

- Mar 96 - Mar 2001

#### (A Department of Defense (DOD) Related Position)

**Electrical Engineer (Contracted) for Signal Corp. Fairfax, VA** Data Management and Reengineering of Field Radio for the Logistic and Readiness Center Group. The mission was to provide technical support to civilian staff of the US Army, specifically *the U.S. Army Communications-Electronics Command (CECOM). CECOM's Legacy Program Mission* was to convert past "minor" electronic CAD databases (from various Contract Companies in the USA) into new commonly used databases. **Research, purchase and implemented the hardware/software needed to convert multiple Legacy Designs into a Mentor Graphics or Cadence Design Systems CAD Databases**. Procured *Gerber Files* for board layout data to Board Manufacturer to produce a new AF PCB Module. **Mentor Graphics and Cadence Design Systems used on a Sun/Apollo/PC based platforms**.

## Professional Experience

- **Instructor/Teacher/Educator**

### Educational Resources Inc., (ERI) Fairfax, VA - NYC Area Evening Classes

- Mar 96 - Mar 2001

#### Private Contracting: Technical Educator...

Instructed Electronic Communications Union Members (**ATT and Lucent Employees**) on the **basic theories of Electronic and Electrical Circuitry** i.e. Thévenin-equivalent, Kirchhoff voltage and current laws, Inductive and Capacitive Circuits, Resonant Frequency, Basic Principals of Digital and Analog Circuits, Vend Diagrams, Truth Tables, Power Systems (Y and Z) configuration, Basic AC and DC circuits. Resistor codes and tolerances, Basic theory of propagation of traveling microwaves in waveguides, Basic Relay Theory, Properties of Narrow and Wide Bandwidth and Filtered Circuits, RC Time constants, Functionality of One shot and Watchdog Timers. My primary objective was to prepare these Union Employees/Students to pass their Union's Electrical and Electronic Tests which were needed to advance the employees to their next union grade level. Responsibilities included grading practice exams.

### Westchester Business Institute. (WBI) 325 Central Ave, White Plains, NY

- Mar 93 - Mar 95

**Educational Instructor for the WBI students**. Lesson plans covered Advance College Algebra, Micro and Macro Economics, Microsoft Networking, Basic theory of Data Storage and Computer Structure and Composition, Understanding the fundamentals of MS Office Applications i.e. Word, (Spreadsheet) Excel, Power Point, Access (for Database Construction). Also included an Emerging Information Technologies courses. Developed assessment tests to evaluate students' progress and achievements in comprehending my lessons. Was able to give incentive and encouragement to students that were in need of addition after class tutoring. Submitted final grade entries.

### Epiphany Lutheran Elementary School, 721 Lincoln Place, Brooklyn. New York.

- Mar 91 - Mar 93

**Substitute Teacher** for 3rd to 5th grade classes. Replacement teacher for grade 4 class. Classes included, Basic Biology, Math, Literature, Reading Skills, Current Events and History. Fundamentals of Computer Science Operation taught to the entire school K thru 5<sup>th</sup> grade. Developed assessment tests to evaluate students' performance, progress and achievements in comprehending my lessons. Was able to give incentive and encouragement to students that were in need of addition after class tutoring. Submitted final grade entries.

## Experience

**Airborne Instruments Laboratory (AIL), Eaton Corporation, Melville, New York**  
(A Department of Defense (DOD) Related Position)

- Mar 85 - Mar 91

**Digital Logic Design Engineer, Research and Development,** - Experience with Major CAD SYSTEMS: i.e. Mentor Graphics and Cadence Design Systems. Electronic Digital CIRCUIT Design of interface circuits utilizing *Military Standard Specifications*. Supervised Lab Technician in constructing TEST EQUIPMENT To test my newly designed digital circuit. Experience in digital, analog and hybrids board layout for newly designed or redesigned circuitry. Experience in *Electronic Counter Measures (ECM)* i.e. Trackers. Hands on CAD experience during the design phase, including: schematic capture, logic simulation, and real time logic simulation timing analysis, using a variety of workstations, *i.e., Sun/Apollo/PC based systems*. Designed the appropriate hardware (test fixture) and developed software programs used to test newly designed digital circuit. Supported the B-IB Bomber (Radar) production line. Generated proposal studies and reports in response to RFPs and White Paper Reports, materials and complete lab testing of the designed circuitry.

**ITT Avionics, Nutley/Clifton, New Jersey**  
(A Department of Defense (DOD) Related Position)

**Digital Logic Design Engineer-** Design or modification/redesign of digital logic circuits, using Electronic Counter Measures (ECM) techniques while implementing **Military Standard Specifications**. Responsible for *the supervision of technicians, materials and complete lab testing of the newly designed circuitry.*

## Education

**CITY UNIVERSITY OF NEW YORK,  
THE CITY COLLEGE OF NEW YORK,  
160 CONVENT AVENUE,  
NEW YORK CITY, NEW YORK 10031**

**BACCALUAREATE DEGREE OF ENGINEERING in ELECTRICAL ENGINEERING  
(BEEE)**

**CITY UNIVERSITY OF NEW YORK,  
New York City COLLEGE OF TECHNOLOGY  
300 Jay Street,  
Brooklyn, New York 11201**

**Associate of Applied Science Degree in TECHNICAL ELECTRONICS (AAS)**

## Societies Affiliation

**IEEE Membership**

**Membership IEEE Electromagnetic Compatibility Society**

**Membership NSBE**

**Membership IEEE Aerospace and Electronic Systems Society**

**Membership IEEE Education Society**