

## **Dennis Edwin Buchanan, MSMOT**

9225 Thurston Ln.  
Partlow, VA 22534

### **Work Experience**

#### **Rappahannock Electric Cooperative**

Title - Telecommunications Technician II

Dates Employed - Jun 1996 – Present

Employment Duration

•21 yrs 7 mos

Location - Fredericksburg, VA

#### **SUMMARY OF QUALIFICATIONS**

- Design, Installation, Implementation, Maintenance, Project Management, Trunking and Conventional, Mobile, Portable Radios and Microwave Radios Communications Networks, Emergency Systems
- Emergency generators / transfer panels
- FCC / FAA Rules and Regulations

#### **VEPCO (Dominion Power)**

Title - Sr. Telecommunications Technician

Dates Employed Oct 1977 – Oct 1995

Employment Duration

•18 yrs 1 mo

Installed and maintained 2 and 6 GHz Microwave radios, fiber optic equipment, data communications network, emergency communications, WAN/LAN systems, ROLM and Mitel PBX's, and nuclear early warning siren system.

- Contributed as a member of a 3-person design team. Final design of 800 MHz radio trunking system at nuclear power station. Programmed all central site and system manager equipment. Met all federal requirements.
- Found design flaw in an early warning siren system that caused self-activation. Installed short-term protective measures that were effective.
- Served on a design team to replace early warning siren activation devices. Assured higher level availability (83% increased to 100%) and system now reports status continuously.
- Instituted new quarterly siren maintenance procedure that reduced maintenance time from 80 man-hours to 16 man-hours.
- Trained 500 station employees on the usage of new 800 MHz radio trunking system. Seamless cut over to new system achieved.
- Devised and taught conventional radio usage class to 200 Health Physics Technicians as part of their annual re-training. Zero radio problems during drills.
- Installed three (3) microwave radio sites consisting of 2 and 6 GHz radios, analog and digital multiplex equipment. Increased efficiency of communications in servicing more office sites.

## **US Navy**

### ***Electronic Technician (RADAR) Petty Officer 2nd Class – E5***

Mar 1976 – Oct 1977

U.S.S. Elmer Montgomery (FF-1082)

Electronic Shop Supervisor – Supervised maintenance and repair on: HF, VHF, UHF communications equipment; IFF, Surface and Air Search Radar, and associated equipment.

### ***Electronic Technician (RADAR) Petty Officer 2nd Class – E5***

Apr 1973 – Mar 1976

U.S.S. Trenton (LPD-14)

Radar Shop Supervisor – Supervised maintenance and repair on IFF, Surface and Air Search Radar, and Radar Repeaters.

## **Education**

### **Kennedy-Western University**

Master of Science, Management of Technology, **Summa Cum Laude**

Dates attended - 2001 – 2003

### **Strayer University**

Bachelor of Science, Business Administration

1989 – 1992

### **Germanna Community College**

Certificate, Small Business Management

1990 – 1990

### **Germanna Community College**

Associate, Business Management, **Magna Cum Laud**

1987 – 1989

### **U.S. NAVY**

Radar Electronics

1973 – 1975

1973-1975: Electronic Technician (ET) “C” School Fleet Training Center, Norfolk, Virginia.

AN/SPS – 40B, C, D Air Search Radar Difference Course, (1975).

AN/SPS – 40A Air Search Radar Course, (1974).

AIMS/ATCRBS MK XII IFF Systems, (1973).

Dates attended 1972 – 1972

Basic and Advanced Electronics, ET “A” School, Great Lakes, IL. 1972 (44 weeks)

Electronic Theory, Operation and Repair of Equipment, Surface Search Radar, Radar Repeaters, IFF.

## **Organizations**

### **Spotsylvania County Election Official**

Jan 1997 – Present

- Precinct Chief; Asst. Chief; Machine Officer    Precinct Chief - since 2007

### **Selective Service**

Jul 1995 – Present

- Member Civilian Review Board, Region II, State of Virginia, No. 713 - July 1, 1995 to March 25, 2004.  
Local Board No. 54, Region II, State of Virginia. - March 25, 2005 - present

### **Spotsylvania Board of Zoning Appeals**

2001 – Jul 2017    • Secretary, Vice- chairman, Chairman

### **Fredericksburg Regional Technology Council (FredTech)**

Jan 2007 – Dec 2012    • Board of Directors

### **Spotsylvania County Cable Commission**

Sep 1987 – Oct 1998    • Vice - Chairman, Chairman

Representative - Lee Hill District 1987 -1995

Representative - Berkeley District 1995 -1998

Spotsylvania County Resolution No. 98-103

### **Sylvania Heights Baptist Church**

Board of Directors - Chariman

Trustee – 19 years.

Deacon – 34 years.

Deacon Chairman – 11 years.

Licensed Minister – 32 years.

Sunday School Teacher – 30 years.

Sunday School Director – 10 years.

Choir Director – 17 years.

Stewardship Committee Chairman – 20 years.

Property Committee Chairman – 2 years.

Baptist Association Training Director – 4 years.

Pastor Selection Committee – 2 years.

Led church through two year process of incorporation.

### **Rappahannock Colonial Heritage Society**

**Charter Member –March 2000**

## **Publications**

### **New Analog System Meets Utility's Needs**

Publication date: May 2013    • Mission Critical Magazine

### **Rappahannock Electric Cooperative: Case Study for the Replacement of the Telecommunications Infrastructure**

Publication date: May 22, 2003    • A-1 BookBinding

Publication description

The book is a study of the different technologies available at the time to decide the best fit as to price and benefit to overhaul the internal telecommunications transport for a high-speed data network.