

David W. Gibbons

EDUCATION

Penn State Erie: The Behrend College

May 2017

Electrical and Computer Engineering Technology, B.S.

EXPERIENCE

S.T.E.M. Center Director – Resica Falls Scout Reservation, Boy Scouts of America

2009 – Present

- Developed and introduced an Electronics Merit Badge program teaching scouts a range of material from Ohm's Law to digital electronics and soldering a kit built for the program.
- Designed and organized the execution of a new Radio Merit Badge Program including the purchasing of the equipment for an amateur radio station as well as the installation of all the necessary equipment for operating and maintaining the radio station.
- Introduced Cinematography Merit Badge featuring teaching scouts about the process of story development from the story board through filming, editing, and production.
- Assisted with the design and implementation of the projection, lighting, and sound control systems for a new campfire arena. Installed the same equipment alongside a small team.
- Administered a network with multiple public access points servicing more than 150 simultaneous clients.
- Managed a team consisting of 4 staff members.

Order of the Arrow, Unami Lodge Website

2011 – Present

- Designed and wrote a custom website content management system with various levels of administrative permissions in order for people outside of the Communications Committee without any understanding of web development languages to manage different pages.
- Redesigned the website from the ground up using PHP to prepare for more dynamic content as well as using a new CSS framework to design with.
- Continually assist with design, development, implementation, and documentation of the website for the Communications Committee.

Theater Lighting Design & Management

2009 – Present

- Responsible for maintaining and operating lighting control systems using Electronic Theatre Controls products.
- Designed and programmed 8 full length theatrical shows over the past 4 years as well as maintaining and operating a variety of A/V equipment for other presentations.

SKILLS

Operating Systems: GNU/Linux (Debian based distributions), Windows, OSX

Software & Development Tools: Visual Studio, Arduino, OrCad, PSPICE, FileZilla, LibreOffice, Microsoft Office

Hardware: Arduino/AVR, Raspberry Pi (ARM Based SBC)

Programming / Markup Languages: C, C++, PHP5, SQL, HTML5, CSS

FCC Amateur Radio License: General Class, ARRL Volunteer Examiner

LEADERSHIP AND ACTIVITIES

Unami Lodge Communications Chairman

Behrend Studio Theater Lighting Manager

ECET Club Treasurer

OTHER EXPERIENCE

Computer Center Student Consultant, Penn State Behrend IT Service, Erie, PA

01/14 – Present

Freshman Interest Group Mentor, Penn State Behrend Residence Life, Erie, PA

05/14 – Present

AWARDS

Boy Scouts of America:

Eagle Scout

2012

Charles J. Benshetler Spirit of Camp Leadership Award

2012

Thomas J. Richards Outstanding Service Award

2012

Vigil Honor

2013

St. Joseph's Preparatory School:

The Cape and Sword Award

2011

The Cape and Sword Service Award

2012