



Shane Womack

- DESIGNER
- PROGRAMMER
- EDUCATOR

PROFILE

A Jack of All Trades that focuses on Structure, Process, and Efficiency who enjoys helping others, challenges, learning and creating.

CONTACT

Shane Womack

CELL: Upon Request

shanewomack@gmail.com

linkedin.com/in/womackshane

www.DraftingOD.com

WORKING EXPERIENCE

Drafting, On Demand

OWNER / OPERATOR | 2001 – CURRENT | Alabama

Experience in many disciplines including Wireless, ISP, OSP, DAS, Small Cell, Structural Steel, Detailing, Survey Drawings and Architectural projects. Telecom experience includes fiber splicing diagrams and working knowledge of installation methods from Long Haul up to the customer access point(s) for commercial, high-rise and FTTH (FTTX). 3D Modeling & Rendering Experience.

Morrison Hershfield

DESIGN MANAGER | July 2018 – Feb 2019 | Washington

ISO Compliant Project Management Training, Site Audits and a large number of Photo Simulations for regulatory compliance regarding the installation of new 5G antenna, Equipment and Powering Structures utilizing multiple views of each installation. Quality was ensured via 3D Models of existing / proposed conditions and measurements utilizing perspective geometry. Local field data gathered for the project consisting of site location sketches, target elevation sketches and height data gathered via Laser Finder and a Calibrated Measuring Tool for in office height calculations.

Other Relevant Experience

Various Projects | 2001 – Current | AL, FL, AZ, MT, NJ, GA

Experience in designing Fiber Networks for end clients; Google Fiber, Crown, Verizon, AT&T, CTL, and others. Experience includes Code Look-up, Compliance and interaction with Permitting Authorities. Field work includes On-Site Design of new facilities, data gathering (Height Stick, CMT, Locates, Inverse Elevations, Local Utilities, Court House Records, etc.). Creating BOM, Estimating, Field Crew Coordination, etc. Coordinate and direct field crew and designers locally and out-of-state offices. Other Skill sets and experience in Project Management, Design Management and Client Interaction.

PROGRAMMING

Utilizing various languages, I code to automate and increase efficiencies in the processes of data manipulation, implementation and review. Utilizing advanced mathematical concepts; create programs to calculate distances between GPS Points, Measure Distances within Projected Geometry, interact directly with programs such as AutoCAD and Excel, etc. Web automation for data gathering; Road/Sat. Maps, Google Geocoding, and other information.

EDUCATION

Creation of documentation to spread standardized information to needed parties in the form Procedural Memos, SOP Documentation, Project Sensitive Directives as well as Training Documentation. Information is disseminated via Email, Intra/Internet, Written Word and Video Tutorials. Share modern techniques to ensure efficiency and standardizations in design processes.

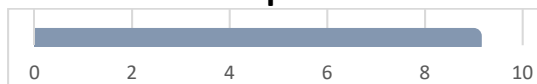


TECHNICAL SKILL SETS

AutoCAD (r12 -> 2018)



Adobe Photoshop



AutoCAD Civil3D



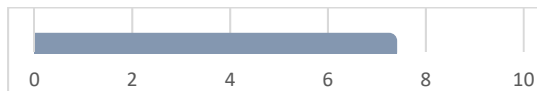
MS Excel



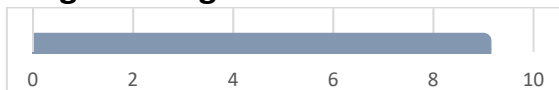
3D Modeling / Rendering



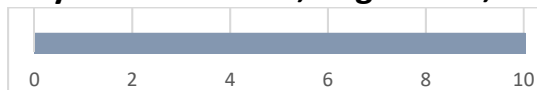
MS Word



Programming



Any New Software, Regulation, Etc.



AREAS OF STUDY

Course Work

Drafting By Hand
Computer Aided Drafting and Design
AutoCAD 3D
3D Studio Max

Self-Education

Programing Languages
Spoken / Written Languages
Mathematics
Physics

Languages

Spoken:
English
Basic American Sign Language
Basic French
Computer:
BASIC
Visual Basic
Visual Basic for Applications
DISIEL
LiSP / Visual LiSP
Active-X
Windows Scripting
C / C# / C++
Dot.NET

Mathematics

Distance Calculations
2D / 3D Linear Distances
Arc Distances
Spherical Distances
Geodesic Distances (GPS Calculations)
Great Circle Distance
Haverty
Vincety Formulae
Algorithms
A-Star Path Finding
Matrix Maths
Infinite Number Series
Vector Maths
Various Others

PORTFOLIO

Samples of various past projects, articles and tutorials that I have been involved with and created can be found @ www.draftingod.com/

REFERENCES

Available Upon Request