

JOHN ROSE

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I am a versatile, skilled, and results-driven problem solver with a proven aptitude for working in both physical and technical arenas. I am often referred to as somewhat of a renaissance man and, as such, I am interested in a career direction which will utilize my technical abilities while promoting continual learning in areas of interest. I have a wide array of work experience including; heavy earth work construction, electrical infrastructure, mechanics, carpentry/woodworking, commercial and residential mechanicals, municipal workings, computers, microelectronic circuitry, artistic education/development, and the fine/industrial arts. My broad experience has fostered my developing interest toward full-spectrum architectural/building work.

Formal Education

Washington State University

- B.S. Computer Engineering (B.S. Electrical Engineering and B.S. Computer Science)
Graduated Magna Cum Laude
- Member Tao Beta Phi Engineering Society
- Minor Studies – Physics

Legal

- Canadian Resident (since 2003) with valid Permanent Residency status
- US Citizenship with valid US passport
- Class G Driver's license (clean record, previously held DZ equivalent with tank truck, and hazmat endorsements)

Skills / Experience - Working Summary

Carpentry / Construction

- 10+ year working in areas of commercial construction, remodeling, and fabrication
- 10+ year experience with all aspects of residential renovation, addition, and new construction from site planning / layout through finishing
- Custom millwork manufacture and installation
- Custom staircase design / build
- Finish and fine carpentry including furniture (wood / steel) and musical instruments
- Timber framing, log building, live edge, and live face woodworking
- Agricultural pole building construction crew lead carpenter
- Radiant Heating
- Intricate ceramic and large format stone tiling
- Drywall, paint, et cetra

Equipment Operation

- Experience operating a variety of heavy equipment

- Excavators - Mini, Standard, and Large - Rubber and steel tracked with various tools
- Loaders – Skid Steer, Compact Tracked, and Wheel Loaders
- Backhoes
- Dump and Flatbed Trucks with hauling various types of trailers and loads
- 20 ton crane
- Hard and Soft Tire Forklifts & Boomed Forklifts
- Slab Scissor Lifts, Variable Reach Lifts, et cetera
- Proficient with countless types of small equipment
- Extensive small boat and barge usage

Municipal / Survey

- Supported Engineering, Streets, Water, Storm Water, and Waste Water municipal divisions
- Maintained digital map datum relating to roads, easements, and municipal utilities
- Performed both traditional surveys and GIS data collection
- Utilized robotic cameras to perform underground inspections
- Researched easements, titles, and archived planning records
- Collected traffic volume data
- Developed forms and procedures for permitting processes
- Reviewed permit applications and performed site inspections
- Performed underground utility location

Electrical

- Familiar with commercial and residential secondary electrical circuits
- Experience in the installation of poles, underground vaults, ducts, grounding grids, and power lines for primary power transmission and distribution
- Helicopter-based remote transmission line construction experience
- Significant experience with installation of electrical distribution networks through membership with the IBEW Union
- Worked on long civilian contract with the US Air Force upgrading electrical transmission lines

Plumbing

- Residential water supply
 - Comfortable with various supply line materials with preference for Cu lines
 - Familiar with municipal, surface well, drilled well, and lake water supplies
 - Experienced with some residential filtering/treating systems
- Wastewater
 - Good understanding of residential wastewater systems on septic and municipal systems
 - Limited storm water and sewage line work on municipal systems
- Propane
 - Comfortable with fitting typical residential applications
 - Design and installation of UHP-LP system operation in the multi-MBTU range

Mechanical

- Industrial mechanical maintenance and repair
- Commercial automotive and truck repair
- Light machine shop experience

- Welding, soldering, brazing, and plasma cutting

Management / Leadership / Training

- Small Business Owner / Operator
 - Consulting and contract design / build for various multidisciplinary projects
- Experienced with customer specification acquisition and design conveyance to sub trades
- Project estimating experience relating to time, materials, and labor
- Experience in training, supervising, and coordinating the efforts of 20+ workers
- Tutoring experience assisting people in learning many levels of mathematics and introductory computer programming
- Experience leading workshops introducing artists to various tools and working with materials such as wood, steel, and electronics

Computer/Software

- Familiar with a wide array of computer software such as
 - AutoCAD (numerous versions from 2.1 through 2018 utilized for drafting of civil, nontraditional architectural, electronic, and mechanical project types)
 - Autodesk Inventor 3D modeling suite
 - Rhino 3D modeling and its graphical algorithm editor Grasshopper
 - Various computer programming suites and languages
 - Microsoft Office Suite
- Programming from assembly machine level language through high level languages including the creation of new programming languages
- PC based computer hardware assembly, troubleshooting and repair
- MS Windows as primarily utilized OS along with experience utilizing various other operating systems

Electro-Pneumatic and Electronic

- Lead technician maintaining and repairing electro-pneumatic systems in a production environment
- Experience working in conjunction with electronics engineers in the development and troubleshooting of computer controlled electronic, pneumatic, and mechanical systems
- Experience in many aspects of computer hardware and software development, assembly, and operation
- Component level electronics PCB troubleshooting and repair (through hole and SMD)

Embedded Systems

- Designed, built, and tested application specific, hand-held, embedded test equipment
- Developed and prototyped microprocessor architecture, corresponding instruction sets, and verified systems via C++ emulation.
- Designed and assembled prototype multi-layer, dual-sided, SMD PCBs for mixed signals

Design / Innovation

- Versed in classic Buckminster-Fuller Geodesics
- Derived algorithms for
 - Nontraditional geodesic tessellations
 - Multi-shelled geodesics based on warped octet space frames
 - Geodesic projections onto oblate/prolate spheroidal surfaces

- Developed a small parametrically driven design suite for non-traditional geodesics
- Designed and implemented nontraditional geodesic architecture utilized in timber framed structure
- Developed designs for maximizing passive solar collection in geodesic structures
- Designed and implemented Hex-Tri Hex based space frame structures in steel

Notable Past Employers

Woodman Construction	woodmanconstruction.com
Potelco	potelco.net
Chehalis Public Works	ci.chehalis.wa.us/publicworks
Memorex / Tandy Corp.	N/A

Select Recent Personal Projects

Midlothi (Founder/Owner/Planner/Developer/Artist) - 2017 - Present

Early ongoing development of a community of artistic minds

- Continuing acquisition and management of timbered forest (currently well in excess of 100 acres and expected to reach 200+ acres in early spring 2021)
- Allocation, and selected property development, of permanent space for artists and artisans
- Acquiring tools and other resources for large scale art production and on-site artist use
- Currently planning development sights for further permanent installations which are intended to augment the open public access provided at the neighboring 300 acre art farm of “The Screaming Heads”

RoseCCS (Owner) – 2008 – 2019

- Multifaceted business involving arts, artists, art construction space, and installations
- Renovated century homes involving cost estimates, hiring and working with associated trades, under pinning, roofing, plumbing, electrical, trim, finishing, millwork, and such, to completion

Wndr Museum Chicago – 2018

Designed and installed 1 of the 7 rooms currently on display at the now permanent museum (alongside a Yayoi Kusama Infinity Mirror room)

Kensington Studios – 2013 -2018

Developed and managed arts and design studio for up to 12 artists/workers working on client projects

- Electrical requirements, custom carpentry infrastructure, and workspace designed for artists
- Educational training for artists working in a variety of fields
- Client project development and fabrication

Harvest Structures – 2010 / 2014

Contract artistic architectural designer, manufacturing process developer / lead, fabrication / construction foreman

- Various ~3K ft² to ~8K ft² ~40’ tall, tubular steel, architectural structure installations including...
 - Flagship Pyramid 2010-11
 - Crash - 2011-12
 - Thermodome 2012

- Crystal 6 – 2013/2014

- Numerous small installations to improve site function and appeal
- Developed Hex – Tri Hex space frame structures based on customer specifications
- Designed modified Geodesic shell structures.
- Developed component manufacturing process, trained, and provided QA for workforce
- Developed structures internal and external membrane designs and provided manufacturing oversight
- Trained and managed site assembly crew

Toronto International Film Festival - 2012

Designed and fabricated display cases, pedestals and tables with interactive light and sound features

Redelmeier Library – 2011

Contract designer, fabricator, and renovator

- Private library / gallery space renovation and development
- Designed custom metal shelving to customer specifications for an expansive private library
- Developed detailed drawings for custom sheet metal fabrication
- Performed shelf fabrication
- Renovated light industrial location to accommodate library

91B - 2010 / 2011

Contract collective arts studio developer

- Conversion of a 5,000 ft² textiles warehouse to functional artist live / work space
- Developed and implemented wood and metal working facilities
- Hosted various artist workshops

The Heart Machine - 2010

Industrial artist for systems design and implementation

- Toronto based international honorarium art installation at the world's largest industrial arts festival as well as Nuit Blanche Toronto and various other installations
- Co-conceptualization and development of a 65 MBTU flame effect system
- System modeling, specification development, component selection, and assembly
- Site survey, preparation, and systems installation for pilot exhibition

Current Volunteer / Community

My community involvement and volunteerism in Ryerson Township and Burk's Falls began in 2010 by assisting Peter Camani with the development and improvement of the "Screaming Heads" public access art farm. Proceeds from on-site donations benefit the Burk's Falls food bank, library and historical society.

In 2017 after buying property in Ryerson, I sought to expand my local contribution by regularly attending Town Hall meetings. In 2019 I was asked by township council to be a founding member of the Ryerson Township Parks and Recreation Committee. As a committee member, I have submitted a preliminary topological analysis for planning and identifying potential recreational sights, provided photography, and have completed a project proposal for a future community park. Our intention is to develop recreational sights for local residents as well as to bolster the local environmental tourism industry. Our goal is to foster a forward-thinking and sustainable plan to benefit our community long-term.