Name

Address

Phone

Email

**Education:**

**1995 Bachelor of Science in Mathematics**

Indiana University of PA, Indiana, PA

Dean's list

Concentrations in Natural Sciences

**1991 High School Diploma**

High School, PA

**Work Experience:**

**2009-Present Trail Maintenance Worker (WG-07)**

**Assistant Crew Leader**

**(40+hrs./week @ $21.52/hr.) (6 months/season = 2 years)**

**Supervisor:**

**General Duties (performed daily/weekly/seasonally for 4 seasons)**

* **Supervised and lead** crews of 4 – 25 NPS workers or volunteers in remote backcountry sites for up to 10 days at a time (with huge focus on safety, resource protection, and project work).
* **Designed, maintained and constructed** all aspects of trails and their structures, using mostly native materials, gathered by hand, and did all with huge consideration of **rare plants, wetlands, wildlife ethics, scenery, and minimal tool requirements** (see “Approximate Project Totals” list).
* **Operated** semi-permanent, minimum-impact wilderness camps and was responsible for design, set-up, and break down of such camps (used for up to 8 weeks at a time).
* **Instructed** new crewmembers on all trail work, low impact camping, and sanitation in bear country (with major discussions on proper treatment of drinking water, personal hygiene, food preservation and storage, dishwashing, and latrine design and use).
* **Assessed** over 100 miles of trail to assist my leader for future projects.
* **Assisted Management** of all backcountry logistics and planning of crew, including organization and prioritization of tools, people, and time as well as all preparation and clean-up work.
* **Scheduled** meetings for volunteer projects and communicated with packers, district and sub-district rangers, and trail’s and volunteer supervisors before and after project completion.
* **Pre-Sited** with crew leader and volunteer coordinator for volunteer projects.
* **Evaluated** volunteers’ performances.
* **Completed** necessary paperwork for volunteer projects such grant totals, food and tool estimates, safety and time management forms.
* **Delegated**  responsibility to crewmembers and volunteers according to need and ability.
* **Directed** crewmembers and volunteers toward proper facilities and resources.
* **Documented** all work totals, progress and completions reports, injuries, time issues, and future needs, using reports and systems such as JHA, Root/Cause Analyses, and Conditional Assessment.
* **Prioritized** project goals to increase mission efficiency.
* **Utilized** computers to keep current on new issues like fire bans, weather conditions, and road closures.
* **Proposed** future trail and crew needs to the supervisor, including but not limited to: training and structures.
* **Adapted** work plans according to many changing conditions and factors including crew fatigue, weather, broken tools, and unforeseen circumstances and obstacles.
* **Interpreted**  written and oral instructions from the trail supervisor and related to crew.
* **Hiked** up to 20 miles a day, at an average of 3 miles per hour.
* **Lifted** and carried up to 150 lbs. and assisted with objects in excess of 1,200 lbs.
* **Worked** at elevations up to 10,000 feet in all types of inclement weather conditions.
* **Lead** over 100 volunteers/youth groups members with the Montana Conservation Corps, Youth Conservation Corps, and volunteers on National Trails Day and National Public Lands Day.

**Work Practices (proficient with and have taught crew classes on):**

**Trail Work**

* **Using and maintain all appropriate hand and power tools (see “Tools”).**
* **Clearing logs, brush, limbs, trees, and rocks according to Yellowstone National Park standards with minimum impact tools (see “Approximate Project Totals”).**
* **Restoring and re-vegetating old trails, using aeration, erosion control, re-contouring, and native plantings (see “Approximate Project Totals”).**
* **Designing, cleaning, and constructing foot and livestock bridges (including puncheon and stringer) and many other types of native rock and wood structures for drainage, erosion, travel problems, steps, and retention (see “Approx. Project Totals”).**
* **Designing new tread and reroutes (see “Approx. Project Totals”).**
* **See “General Duties” above for information on considering environmental factors and compliance work.**

**Masonry Work**

* **Planning, designing, construction, and layout of masonry work, as well as selecting, cutting, shaping, and fitting native stone for all types of structures (see “Approx. Project Totals”).**
* **Using and maintaining all appropriate tools to obtain grade, level, and batter of walls (see “Tool”).**
* **Mixing mortar to proper proportions and consistency and matching the existing style in accordance with historic preservation guidelines.**
* **Safe hauling practices.**

**Wood Work**

* **Using and maintaining all appropriate tools (see “Tools”).**
* **Planning, designing, constructing, and selecting native materials for bridges and other structures (see “Approx. Project Totals”).**
* **Felling, limbing/bucking, and peeling logs.**
* **Notching and spiking structures.**
* **Safe hauling practices.**

**Rigging Work**

* **Using, inspecting, and maintaining all appropriate tools and equipment to move heavy materials (see “Tools”).**
* **Setting up systems like dragline, skyline, tightline, block and tackle systems for specific ratios and a-frames.**
* **Cutting, splicing, assembling, and repairing all gear.**
* **Calculating proper load weights and strengths of anchors.**
* **Designing carriers/baskets and estimating the center of gravity for proper tie-off points of different objects to be hoisted or moved.**
* **Ensuring use of proper PPE and safety of all members involved.**

**Livestock Handling and Packing**

* **Loading, unloading, feeding, catching, grooming, saddling, fencing, and picketing in both front country and backcountry settings.**
* **Using stock to transport, skid, and pack thousands of pounds of native rock, wood, and dirt, as well as planks and cement in remote locations.**
* **Using many hitches for tying and balancing loads (including the diamond, barrel, box, decker, and sling hitches).**
* **Using stock with old farming tools like plows, graders, and buckets to dig a new trail or aerate and old trail for re-vegetation(I did not teach this).**

**Safety**

* **Implemented a workplace fitness program to reduce injuries. This included daily stretches, ergonomics discussions, and use of proper PPE.**
* **Discussed and modeled all worksite and campsite technical skills with both trail workers and partner groups.**
* **Assessed, designed, and supervised both worksite and campsite for safety concerns, and created a list of safety topics for weekly discussions. Topics like proper lifting, lighting, hypothermia, hydration, and wild animals.**
* **Filled and modeled JHAs for any appropriate activity, using daily when needed.**
* **Documented all accidents on appropriate forms and guided members toward filling out similar forms, while also modeling information about root/cause analyses.**

**Approximate Project Totals** (designed, lead and constructed within

Park standards and protocols, using mostly native materials):

* **Bridges for livestock** (4 feet to 5 feet wide with abutments)

**Planked –** 200 feet

**Hard Stringer –** 100 feet

**Puncheon –** 64 feet

* **Foot Bridges/Foot logs –** 200 linear feet (milled with ~10 inches of tread)
* **Misc.** **Bridge fixes** (H-braces, rock/wood abutments, new planking, new bull rails, chinking) – 30+ bridges (averaging 15 feet long by 4 feet wide)
* **Culverts for wagon road** – 4 (12,000+ pound capacity – 8 feet to 12 feet wide)
* **Turnpike**  - 400 yards
* **Causeway** – 75 yards
* **Muckway -** 400 yards
* **Fences**

**Jackleg –** 275 linear feet

**Post and Rail** – 500 linear feet

**Bison and Stock** – 350 linear feet

* **Reroutes (new tread construction) –** 2.5 miles (with ~20 switchbacks)
* **Re**-**vegetated/restored trails** – 1.5 miles
* **Tread reconstructions/re**-**contouring** – 5.5 miles
* **Crushed drain dips** – 55 (average of 30 square feet with 1.5 cubic feet of crush/fill)
* **Rocks steps for stairways** – 50 (average of 3 feet wide)
* **Stepping stones** – 25
* **Inside drains** – 350 linear feet
* **Streamside retainers**

**Wood –** 70 (average of 8 feet long each)

**Rock –** 30 (average of 7 feet long each)

* **Retaining/Crib wall (single and multi-tier)**

**Wood –** 300 square feet

**Rock -** 750 square feet (both wet and dry stone methods employed)

* **Rip rap/Junk wall –** 700 square feet
* **Cribbing –** 400 cubic feet
* **Check dams**

**Wood -**750 (average of 4 feet each)

**Rock –** 40 (average of 4feet each)

* **Water Bars**

**Wood –** 200 (average of 6 feet each)

**Rock –** 30 (average of 6 feet each)

* **Swales –** 150
* **Trails cleared, brushed, drained, and stones pitched –** 250 miles
* **Trails assessed –** 100 miles
* **Stumps pulled –** 40 (by hand with axes and with griphoist/come-a-longs)
* **Hazard trees removed –** (other than clearing trail) – 75

**Tools** (proficient with and have taught the proper/safe use, repair,

and maintenance of):

**Chainsaw** – 15 years of experience (including cleaning, sharpening, mixing proper fuel, changing spark plugs/filters, replacing pullcords, clutches, and recoil springs, making new chain, felling, bucking, limbing, notching bridges and structures, harvesting firewood, packing, and troubleshooting).

**Pionjar/Cobra** – 12 years of experience (including fixing chuck and piston problems, decarbonizing, adjusting fixed settings, cleaning filters, packing, digging, drilling, cutting stone, and troubleshooting).

**Hand tools and more** – 12 to 25 years of experience

Pulaski, McLeod, pick mattock, hazel hoe, adz, single and double bit ax, shovel (flat, round, and spade), sledgehammers, single and double-jack hammers, loppers, wedges, cross-cut saws (felling and bucking), bow saw, pole saw, hand saw, weed whips, weed whackers, rock drills, winches, compass, rakes, draw knives, rock and wood chisels, rasps, files, scribes, log tongs, peavey, tamping bars, rock bars, post hole diggers, planer, augers, grip hoist, come-alongs, a-frames, tripods, wire rope gear, camp equipment (lanterns, water filters, wall tents, wood stoves, and cooking stoves) levels, plumb bobs, wheelbarrows, power barrows, dirt bags (for hauling), batter boards, gauge lines, cement mixers, trowels, blocks and tackle, pulleys, shackles, straps, chokers, grippers, chainsaw winches, chain hoist, fall protection, GPS units, computers, fence pliers, wire pullers, plugs and feathers, lawn mowers, and 4x4 vehicles.

**2006-2008 Trail Maintenance Worker (WG-05)**

**Supervisor:**

**Worked** in same setting as WG-03.

* **Designed, maintained, and constructed** all aspects of trails and their structures, but not limited to: bridges, retaining walls, drainage systems, switchbacks, turnpikes, muckways, causeways, foot logs, new tread, and re-routes.
* **Helped** with packing operations.
* **Assisted** leader with daily operations.
* **Carried** materials weighing up to 50 -150 pounds.
* **Trained, supervised, and lead** volunteer groups, rangers, and NPS employees of up to 13 workers. Projects would be up to 14 days in similar settings as stated above (~54 total workers or volunteers).

**2003-2005 Trail Laborer (WG-03)**

**Supervisor:**

* **Worked** as a member of a backcountry trail crew in remote sites, with 4-30 workers for up to 10 days at a time (many projects were at high elevations, up to 10,000ft, and work was performed in all types of inclement weather).
* **Maintained, and constructed** all aspects of trails and their structures.
* **Utilized, maintained, and became proficient** in the use of all tools associated with the trade of trail work.
* **Helped** with packing operations.
* **Carried** materials often weighing between 50 – 150 pounds.
* **Trained, supervised, and lead** avolunteer group of up to 7 workers. Project was 3 days in the front country.

**2001-2002 Crew Leader and Crew Member**

**Conservation Corps**

**(50+hrs/week at $400 bi-weekly) (1.25 years)**

* **Hired** 16 crewmembers for 4 Bozeman crews.
* **Delegated** responsibilities to crewmembers.
* **Manage** a crew of 7 people.
* **Design** service learning projects.
* **Organized** Stream and River Community Cleanup Project
* **Worked** in Montana and Wyoming with multiple government organizations: BLM,NPS,NFS, MT Fish and Wildlife, and City Park Departments
* **Completed** a wide variety of jobs, as a integral member of a crew. Some of the jobs consisted of trail building, fencing, stream restoration, historical restoration, carpentry, general community service.

**Other Work: (2001- 2012) seasonal winter work**

**2012 Busser, Gun Barrel Steakhouse, Jackson, WY**

**2008-2009 Project Manager for Lift Operations, Big Sky Resort, Big Sky, MT**

**2007 Lift Operator, Moonlight Ski Area, Big Sky, MT**

**2001- 2006 Lift Operator, Bridger Bowl Ski Area, Bozeman, MT**

**2000 Kitchen Cabinet Builder, New Creation Cabinetry, Bozeman, MT**

**1997-1999 Building Supply Salesman, Kenyon Noble Lumber, Bozeman, MT**

**Professional Organizations and Development**

* **CPR and Wilderness First Aid (2003-present)**
* **Wilderness First Responder Certified (WFR) (2011 – present)**
* **Chainsaw Certification (S212) (2001-2002) with B task book open**
* **Fencing Training (2002)**
* **Noxious Weed Spraying and Identification (2001)**
* **Carpentry Training (2002)**
* **Rigging Training (2004-present)**
* **Stock Safety Training (2004-present)**
* **Yellowstone National Park Chainsaw Certified (2003-present)**
* **Yellowstone National Park Chainsaw Instructor Certified (2010)**
* **Wildland Fire Fighter Type 2 Certified Red Card (2003-present)**
* **Yellowstone National Park Backcountry Camping Training (2003-present)**
* **Horse Teaming Training (2007)**
* **Yellowstone National Park Horsemanship Training (2012)**
* **Physical Therapy Awareness Training (2007-present)**
* **Backcountry Rangers Cross-Cut Training (2008)**
* **Flagging Training (2010)**
* **Skid Steer Training (bobcat) (2010)**
* **Bear Pole Hanging Training (2011)**
* **Computer use and etiquette (2003-present)**
* **Fall Protection Training (2011)**
* **Hand-Held Radio Training (2003-present)**
* **GSA Credit Card Training (2012)**
* **IS700A National Incident Management System Training (2011)**
* **Whistle Blowing in the Workplace (2006-present)**

**Awards and Honors:**

* **Leadership Development Program in Montana Conservation Corps (2002)**
* **Americorps member (2001-2002) (3,000hrs of National Service)**
* **Yellowstone National Park Safety Award (2008)**
* **Hurricane Sandy RESPONSE Crew (2012)**

**More detailed information upon request.**