

Jack Student

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Houghton, MI 49931

SUMMARY

Graduating senior in Forestry and Wildlife Ecology and Management, with internship and semester long field skills camp experience, and a 4-year varsity athlete.

FORESTRY SKILL SUMMARY

- Tree and Flora Identification
- Increment Boring
- Map and Photo Reading
- Better Mgmt Practices (BMP's)
- Landowner Objectives
- GIS - ArcMap
- Compass, Pacing, and Line Running
- Plot and Point Cruising
- Clinometer, Biltmore Stick
- Riparian Zone Identification
- Silviculture Applications/Concepts
- Dynamic/Extreme Working Environments
- Habitat Typing
- GPS Navigation
- Radio Tracking
- Prism Usage
- I.D. of Pest Species

EDUCATION

Michigan Technological University
BS Forestry
BS Wildlife Ecology and Management
GPA: 2.74

Houghton, MI
Expected Dec 2016
Expected Dec 2016

INTERNSHIP EXPERIENCE

American Forest Management and GMO State and Federal Lands
Forestry Intern

May – Aug 2016

Project: Maple Dieback Assessment

Objective: To determine cause of sugar maple disease/death in the UP, Wisconsin and Northern Minnesota

- Measured trees in a fixed radius plot down to 4.5 inches
- Completed comprehensive forest health assessments for pre-determined plots, using GPS to navigate
- Measured canopy density, dieback and transparency
- Identified trunk wounds, worm evidence and dead limbs
- Assessed and reported understory regeneration

FIELD EXPERIENCE

North Carolina State University Forestry Field Skills Camp, May – Aug 2015

- Measured Site Index using increment boring, core aging, and clinometers measuring tree height to determine the relative productivity of delineated stands within 100-acre parcel
- Identified Habitat Type using herbaceous species
- Identified Major Soil Types
- Conducted a 10 Basal Area Figure Cruise using a cruise-line approach and a 10 basal area factor prism to determine average stand density in trees per acre (ft²/ac) at randomly selected sample plot sites
- Delineated Stand Types using ArcMap
- Determined Acreage
- Generated Cover Type Maps, including: including forest cover types, riparian zones, logging roads/landing sites, and property boundary lines using ArcMap geographical information system (GIS) software to develop pertinent visual documents depicting the 100-acre parcel

- Assessed Advanced Regeneration
- Wrote a Silvicultural Prescription using knowledge learned during my practice of silviculture course and while shadowing government and private foresters at managed sites to develop specific management objectives unique to each stand type within the 80-acre parcel
- Calculated Downed Dead Wood Volume

Michigan Tech University FERM Program (Forest and Environmental Resource Management)
(FERM provides hands-on, team and project based experience in planning and implementing real-time, conservation-oriented management on the school's 5500 acre forest)

Project Objective: Design management plan for Michigan Tech Trails

- Performed 80 acre timber cruise, including: Tree ID (in winter months), measurements, dbh and canopy
- Calculated sawlogs/pulpsticks for each species using Excel

Project Objective: Houghton County Cemetary Tree Assesment

- Measured height, dbh and ID'd trees and mapped with GPS
- Assessed overall health of each tree and assigned health grade on GIS

Project Objective: Improve Forest Roads

- Assessed culvert performance and installed new where needed
- Installed check dams on steep grades to reduce runoff and erosion
- Cut slash to reduce compaction on roads in wet areas

VARSITY ATHLETIC EXPERIENCE

Michigan Technological University Varsity Football Team

4 year Letter Winner

- 2-semester daily practice commitment
- Balanced 3 hour daily practice and bi-weekly game travel with full-class schedule
- Studied, learned, and executed numerous game strategies and systems
- Learned and practiced troubleshooting and problem solving techniques in high stress, real-time competition environment

Developed teamwork, communication skills, time management/prioritizing skills, competitive character, highly disciplined work ethic, and performance excellence

WORK HISTORY

Carrington Golf Course
Grounds Maintenance Crew

Monroe, MI
 Seasonal 2009 – 2014

COMMUNITY SERVICE

- Leader, Christmas Retreats, Organization, Location, Dates
- Coach, Sports Camps, Organization, Location, Dates
- Volunteer, Annual 4th of July Chicken BBQ Fundraiser, Dollar Bay Volunteer Fire Dept.