

Nicolas Mathews
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Education

- ***New Mexico Institute of Mining and Technology***
Civil Engineering, Bachelor of Science, Graduated December 2015
Cumulative GPA: 3.08
GPA (Last 60 hours): 3.32
- ***Oregon State University***
Geotechnical Engineering, Master of Science, Attending September 2016

Work Experience

- ***Taos Ski Valley, Guest Services***
December 2015-April 2016
 - Patrolled mountain, assisting guests and ski patrol
- ***New Mexico Tech Civil Engineering Department, Grader (Steel Design)***
September 2015-December 2015
 - Graded assignments for Dr. Claudia Wilson's steel design class
- ***Alcohol Safety Awareness Program at New Mexico Tech, Student Leader***
August 2014-December 2015
 - Prepared media for social outreach
 - Conducted an IRB approved focus group
 - Distributed an IRB approved survey on New Mexico Tech student lifestyles
 - Prepared in-depth summaries analyzing the effectiveness of the program
- ***Campbell Rhea Construction, LLC.***
May 2013-August 2015
 - Built custom cabinets, furniture, and homes for various clients
 - Participated in framing, but focused on trim and custom carpentry
 - Built custom pieces and did custom trim work in an award-winning home
- ***Habitat Management, Inc.***
May 2012-August 2012
 - Worked on reclamation projects in the Rocky Mountains
 - Learned about erosion control, PH regulation, and noxious weed management
 - Worked long hours in wet and harsh conditions

- ***Engineering Internship: Chevron Mining, Inc.***
May 2010-August 2011
 - Gathered data and performed studies to improve operations efficiency
 - Surveyed, processed, and mapped mine reclamation with engineering team
 - Applied problem solving techniques to create an automated volumetrics system
 - Performed field reviews, mapped and tabulated results
 - Wrote technical instructions
 - Gave a presentation at the end of summer
- ***Mary Conrad Center: Assisted Living Home***
September 2009 - December 2009
 - Communicated and interacted with handicap residents
- ***Sylvan Learning Center***
September 2008 – September 2009
 - Assisted teachers, parents, and students during and in between tutoring sessions.

Certifications

- **AIARE Avalanche Training**
American Institute for Avalanche Research and Education, Level 1 certification
- **ASCE Member**
American Society of Civil Engineers

Skills and Qualifications

- ***Research Qualifications:***
 - A in graduate-level course: *ME 540: Computer Applications in Geotechnical Engineering*
 - Created an image processing GUI in MATLAB for analyzing soil grains
 - Used numerical modeling method (finite difference method) to create MATLAB code for analyzing seepage beneath a dam
 - Created MATLAB codes to analyze CU triaxial tests and standard compaction tests
 - Created working slope stability GUI in MATLAB (Bishop's Method)
 - Limited experience with PLAXIS finite element software
 - Strong technical and creative writing background
 - Intuitive understanding of slope stability from backcountry skiing and avalanche studies

- ***Leadership and Organizations:***
 - ASCE Concrete Canoe Design Team – Team Captain and Design Manager
 - Technical Presenter at 2015 ASCE Rocky Mountain Regional Conference
 - President: New Mexico Tech Rock Climbing Club (2010-2012)
 - Vice President: New Mexico Tech Biking Club (2012)
 - Teacher's Assistant: NMT Rock Climbing Class (2011)
 - Social Chairman: Mu Alpha Theta National Honors Math Society (2009)
 - Member of FIRST Robotics Team 1544 at Bartlett High School (2008-2009)
- ***Computer and Technical Skills:***
 - Proficient with AutoCAD, MS Office Suite, Adobe Photoshop and Premiere Pro, MATLAB
 - Experience with Trimble Survey Equipment and software
- ***Volunteer Work:***
 - Special Olympics: Volunteer Coach (2009)
 - PACE Peer Facilitation Program (2009)
 - Alaska Visitor Industry Charity Walk Promoter (2009)
 - Spirit of Youth Awards: Guest Peer Facilitator (2009)
 - Co-coordinator: Annual Box Canyon Clean-Up (Socorro, New Mexico) (2010-2012)
 - Co-teacher of Social Emotional Class (Anchorage School District, 2009)

****References available upon request.***