

JOHN M. AGEE, E.I.

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Golden, CO 80402

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Education

Colorado School of Mines

Golden, CO

2002 – 2006

Bachelor of Science in Engineering – Civil Specialty

- Honor Roll
- American Society of Civil Engineers Student Chapter
- Fellowship of Christian Athletes Student Organization

Engineering & Technical Skills

Computer Skills

- Software
 - Microsoft Office
 - AutoCAD LDD
 - Autodesk Civil 3D 2009
 - Autodesk Hydraflow 2009
 - StormCAD XM
 - WaterCAD XM
- Programming
 - Fortran
 - Visual Basic
 - VBA Scripting
 - LISP (AutoCAD)
 - HTML & CSS
 - JavaScript & PHP

Surveying Skills

- Use of Instruments and Surveying Methods
 - Brunton Compass
 - Chain
 - American Transit
 - Hand Level
 - Engineer Level
 - T-1 & T-2 Theodolites
 - Total Station
 - GPS

Other Skills

- Drafting
- Technical Writing
- Laboratory Familiarity
- Technical Design
- Teamwork Experience
- Digital Video Editing

International Civil Engineering Experience

JR Engineering

Centennial, CO, U.S.A.

2006 – Present

Project Engineer

- Competency in engineering practices, design plan sets, and construction processes
- Management of staff and project budgets & schedules
- Horizontal and vertical design of utility pipelines (potable water, non-potable water, sanitary sewer, storm sewer)
- Hydraulics & hydrology computer modeling (storm runoff, pipes, channels, ponds)
- Design of pump stations, groundwater well sites, non-jurisdictional reservoirs, and small-scale treatment solutions
- Demand modeling for water & sewer utility service
- Technical report writing for funding, permitting & design plan submittals
- Project management and coordination of design with Transportation, Structural, Land Development, and Survey teams
- Committees: Recruiting (hiring & training), CAD Development (company standards & procedures)

Engineering Ministries International

Jalle, Jonglei State, Southern Sudan

May 2009

Volunteer Civil Engineer

- Designed school site master plan with team of professional volunteers
- Performed site survey, soil percolation test, and water quality testing of area wells
- Designed water supply, water storage, wastewater solutions, & site drainage

Engineering Ministries International

Mokanji, Moyamba Dist., Sierra Leone

March 2009

Volunteer Civil Engineer

- Prepared hospital renovation plans with team of professional volunteers
- Assessed and designed water supply & wastewater treatment for 25-bed hospital facility

WorldRelief/Baptist General Conference

Yogyakarta, Java, Indonesia

May 2007

Volunteer Sanitary Treatment Trainer

- Observation and interviews during site visits to villages devastated by May 2006 earthquake
- Trained local World Relief staff on septic tank & leech field design

Baptist General Conference

Province du Adamaoua, Cameroon

July 2005

Short-term Missionary

- Assisted with cross-cultural groundwater well caretaker training classes
- Groundwater well sampling and testing in remote villages

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Engineering Projects & Coursework

Senior Design

- Working with 4 students to provide water supply & sanitation for over 400 children/staff at Maranatha Primary School in Mityana, Uganda, East Africa
- Investigated ground water well feasibility & design
- Determined feasibility of flush toilets & septic system to replace pit latrines
- Performed research, technical proposal writing, design work, and presentations

Civil Field Session

- Surveyed on 3-person crew and learned to apply traditional & modern methods
- Measured distances, horizontal & vertical angles, and elevation changes

Multidisciplinary Engineering Laboratory I & II

- Designed and constructed basic circuits
- Acquired computer-assisted data from stress, strain, fluid flow, and temperature-related systems
- Summarized analysis through technical reports

2004 National Student Steel Bridge Competition

- Served as a member of Host Committee
- Created event website, took pictures, and planned logistics

Engineering Practices Introductory Course Sequence (EPICS)

- Acted as leader and contact for team of 5 students developing a seismometer for use in school classrooms
- Presented to advisors and clients, wrote technical report, compiled graphics portfolio, and constructed prototype

Environmental Engineering I

- Introduction to environmental engineering, including water & wastewater treatment processes

Fluid Mechanics

- Fundamentals of fluids; pipe flow; pipe networks; open-channel flow
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Other Work Experience

Maranatha Christian Center

Arvada, CO

1999 – 2006

Office Assistant & Computer Consultant

- Developed Microsoft Access database system for tracking student/staff records utilizing VBS (menus, forms, & reports)
 - Maintaining network system, including implementation of new program requirements, documentation, and data entry
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Achievements

Engineer Intern

- Passed F.E. examination in April 2006
- Graduated from accredited engineering school
- Working under licensed Professional Engineer (P.E.) to obtain P.E. licensure

Professional Societies

- American Society of Civil Engineers – Associate Member (2006 – Present)
 - American Water Works Association – Professional Member (2006 – Present)
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Hobbies/Interests

- Hiking
- Biking
- Mountain Climbing
- Cross-cultural Missions
- Travel