

BRAD ROMAN, PE

Geneva College ('07)

AGENDA

- WHO AM I?
- CARRER HISTORY
- EXPERIENCE
- TYPICAL PROJECT
- CARRER HIGHLIGHTS
- CARRER ADVISE
- STUDENT QUESTIONS
- QUESTIONS TO PONDER
- ADDITIONAL QUESTIONS

WHO AM I?

- **RAISED IN CENTRAL NEW YORK (FINGER LAKES AREA)**
- **GENEVA GRADUATE; DECEMBER '07**
 - CAME UNDECIDED READY TO PLAY FOOTBALL AND BASEBALL, MAYBE STUDY!!!
 - DECIDED TO BE CIVIL ENG. MAJOR 2ND SEMESTER FRESHMEN YEAR
 - PLAYED FOOTBALL 4 ½ YEARS, NO BASEBALL
 - STEEL BRIDGE COMPETITION – NATIONAL EVENT!!
- **CURRENTLY RESIDE IN CHIPPEWA TOWNSHIP**
- **FAMILY**
 - WIFE: LINDSAY (FORMER GENEVA GRAD.)
 - KIDS: HALLIE, JACK, AUBRIE, LACIE, COLE
- **A MEMBER OF CHAPEL PRESBYTERIAN CHURCH IN BRIGHTON TWP.**
- **HOBBIES: BUILDING, OUTDOOR ACTIVITIES, SPORTS**

CARRER HISTORY

- **CURRENT POSITION:**

- LARSON DESIGN GROUP – ASSOCIATE PROJECT MANAGER
- LAND DEVELOPMENT
 - SITE DESIGN, STORMWATER MANAGEMENT, UTILITY DESIGN

- **FORMER COMPANIES:**

- MICHAEL BAKER INTL.: 2008 – 2013
- HRG, INC: 2013 – 2014
- MICHAEL BAKER INTL: 2014 – 2019

EXPERIENCE

- **FEMA FLOODPLAIN MAPPING**
- **COAL MINE DESIGN AND PERMITTING**
- **LAND DEVELOPMENT DESIGN AND PERMITTING**
 - BUSINESS PARKS, RESIDENTIAL SUBDIVISIONS, RETAIL STORES, RACE TRACK.
- **OIL & GAS DESIGN AND PERMITTING**
 - WELL PAD DESIGN
- **DAM REHABILITATION DESIGN AND CONSTRUCTION ADMINISTRATION**
- **MILITARY BASE DESIGN**
- **MUNICIPAL ENGINEER**

TYPICAL PROJECT

- **IDENTIFY SITE & PROJECT**
- **PRELIMINARY INVESTIGATION**
 - ENVIRONMENTAL SURVEY
 - GEOTECHNICAL INVESTIGATION
 - MUNICIPALITY ORDINANCE/STATE REGULATIONS
 - PARKING SPACES, STORMWATER, SETBACKS, ETC.
- **PRELIMINARY DESIGN**
 - SITE LAYOUT
 - GRADING
 - STORMWATER MANAGEMENT FACILITY
 - INFILTRATION TESTING
 - UTILITIES
- **FINAL DESIGN**
 - ADDRESS CONCERNS OR ISSUES IDENTIFIED DURING PRELIMINARY INVESTIGATION
 - FINALIZE GRADING
 - REVIEW EARTHWORK VOLUMES
 - FINALIZE STORMWATER MANAGEMENT FACILITY
- **TECHNICAL SPECIFICATIONS**
- **CONSTRUCTION COST ESTIMATE**

CARRER HIGHLIGHTS

- **BUCKEYE LAKE DAM REHAB**
 - SITE REP. DURING CONSTRUCTION
- **OPPORTUNITIES**
 - VARITEY OF PROJECTS
 - CONSTRUCTION
 - TRAVEL
 - CAREER
- **GROWTH**
- **PEOPLE**

CAREER ADVISE

- **UNDERSTAND YOURSELF**
 - TYPICALLY, TWO PATHS
 - TECHNICAL PATH
 - MANAGEMENT PATH
- **ASK QUESTIONS, SEEK GUIDANCE, NETWORK**
 - “IT’S NOT WHAT YOU KNOW, BUT WHO YOU KNOW”
- **ATTITUDE**
 - BE WILLING TO LEARN & TRY NEW THINGS
- **OBTAIN YOUR PROFESSIONAL ENGINEERING LICENSE**
- **PATIENCE**
 - HAVE TO PUT IN THE TIME TO DEVELOP TECHNICALLY AS WELL AS A PERSON.
- **CONTINUE TO SEEK OUT MENTORS THROUGHOUT YOUR CAREER**
- **BUSINESS CLASSES, GRADUATE SCHOOL OR MBA**

STUDENT QUESTIONS

- **INTERSHIPS**

- CLOSE TO HOME?
- INTERSHIPS AFTER GRADUATION?
- RELATED TO CURRENT WORK?

- **NOT LEARNED, BUT WISH I DID?**

- BUSINESS/ECONOMICS
- IMPORTANCE OF RELATIONSHIPS

- **IMPORTANT TOOLS**

- DIGITAL & PHYSICAL?
 - AUTOCAD C3D, HYDROCAD
- UTILIZE IN COLLEGE?
 - LEARN AUTOCAD CIVIL 3D

- **ATTRACTIVE RESUME**

- INTERNSHIPS
 - HOW TO GET AN INTERSHIP?
 - COMPANIES LOOK FOR
- MULTIPLE RESPONSIBILITIES

- **EXPERIENCE OUTSIDE OF ACADEMICS**

- SPORTS
- INTERSHIP
- SUMMER JOBS

- **MOST VALUABLE (UNCOMMON) NON-TECHNICAL SKILLS BEFORE CAREER**

- COMMUNICATION
 - LISTENING, SPEAKING
 - HOW TO ASK THE RIGHT QUESTION
- MENTAL WORK & LIFE BALANCE
- EMOTIONAL INTELLIGENCE
- MARGIN

- **BEING A CHRISTIAN:**

- FAITH & ENGINEERING
- THERE IS MORE TO LIFE
- WORK OUT YOUR FAITH
 - BE REAL, WORK HARD, BE HONEST

QUESTIONS TO PONDER

- **PERSONALITY TEST – WHO ARE YOU?**
 - ENGINEERS ARE NOT ALL THE SAME!
- **WHY ARE YOU STUDYING TO BE AN ENGINEER? WHAT DO YOU LIKE?**
 - DESIGN, CONSTRUCTION, RESEARCH
- **WHAT ARE IMPORTANT QUALITIES FOR A COMPANY TO HAVE?**
- **DO YOU HAVE A MENTOR?**
- **PRIORITIES?**
 - CAREER, GEOGRAPHIC LOCATION, FAMILY
 - THEY WILL CHANGE, IT'S OK!
- **WHAT ARE YOUR CARRER DREAMS?**

QUESTIONS
