Graduated, Now What?

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Presentation Focus

- Presentation is designed to give advice for college students or young engineers who are looking to enter the marketplace.
 - ▶ Will have some tips that are geared for C++ engineers, yet will try to focus on general hints.
 - ▶ Go beyond the clichés with some real world examples.

Be Dynamic

Be Passionate

Be Proactive

Be Fearless

Tips

Watch the markets

- 2 years ago it was difficult for entry level engineers to join the work place.
- 2 years ago, employers could wait for the right candidate and in some cases just took the next person because they could not find the perfect candidate
- However, now the situation has changed to where there are more job openings than qualified engineers.

What to do during tough times

- Need to play the long game
 - May need to consider three areas of interest.
 - May need to network through other avenues than just the field you are trying to enter
 - May need to move to another area.
 - May need to take a position with less pay
- Need to evaluate your resources
- Need to make yourself visible
- May need to take positions that are not within your area of interest.
- Get contract work.

Confidence

- How do you gain confidence in any economic cycle?
 - ▶ Do some projects that are easy to build and deploy it.
 - ▶ Be honest with yourself.
 - ▶ Do not expect anyone to assist you.
 - ▶ However, build a network of people that you can point to as SME
 - Give a presentation on anything
 - Write a paper
 - ▶ Blog, answer a question on one of the Q & A forums, write an application around a concept

Networking

- CppCon
- NWCPP
- Hackathon
- Work with college age students
 - Assist them to best prepare for the job market
 - Assist them with opportunities

Networking

Volunteer

Conferences

User Groups

Tutor

Networking Continued

- Become a teacher or a mentor
- Meet the movers and shakers in the industry you wish to pursue
 - ▶ Get their email
 - Ask questions
 - ▶ Ask if there is a publication that they need some proofreading, testing, etc.

Dilbert's Theory of Why Sales Makes More Money.

So as knowledge approaches 0, money approaches infinity

Practice, Practice, Practice

Interview Tips

- Technical interviews
 - ► Assembler will focus on stack and bit manipulation
 - ▶ Understand how C++ passes parameters via the stack and local variables
 - Consider Instance versus static
 - ► C++ will focus on data structures
 - Mostly on linked lists. Queue and Stack algorithms are variations of Linked Lists
 - ▶ Some BST, like find max depth or print in order
 - ► Managed code will focus on string object

More Tips

- Code examples used for interviews (tons of them)
 - ► https://www.geeksforgeeks.org
 - StackOverflow can answer some intrinisic information about how something operates
- C++ forums
 - https://isocpp.org/
 - ► https://isocpp.org/std/forums

Conclusion

Communication

Think of the team first

Self-discipline