Bridging the Gap between Industry and Collegiate Education in Networking

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- Interned for 2 years at Lockheed Martin as a Software Engineer
- Will work full-time for Lockheed Martin as a Software Engineer in their Engineering Leadership Development Program (ELDP)
- Will pursue a M.S.E at Cornell University
1. Background

2. Current Joint Industry-Education Approaches

3. What More Can We Do?

4. A Revolving Cycle for Industry & Collegiate Education

5. Leaving Your Mark
Some Scary Statistics

Lost productivity from inadequate training costs employers an average of 1 to 2.5% of total revenue.

18 months after Hiring

46%
The Current Landscape

• On Campus Company Recruitment
• Company Information Sessions
• Industry Donations
• Co-Op and Internship Programs
• Career Fairs
Investments in the Future

• Employer engagement at an individual level
• Industrial Advisory Boards & subsequent interactions
• Industry-sponsored events and training programs
• Conference sponsorships and interpersonal networking
• Mentorship opportunities
Career Building Opportunities

Hands-on Experience

Ability to Strive

Networking

College Immersion Program

The Mentor and Mentee

Passionate Instructors
Power of Peer Learning

Simplified Mentor Process

- Accomplish Objectives
- Hands-on Teaching
- Building Knowledge

Mentor
- Completed Company Objectives
- Gained Greater Perspective

Skilled Worker
- Learned Job Role and Technical Skills
- Ability to Strive and Mentor

Results
What Happens...

...when you think about all the other benefits (and costs)?

...when you establish a mentorship cycle?

...when you give younger generations direct experience?

...when you institute this throughout collegiate education?

...But How?
Industry Advancement

What is good?

• Networking is advancing at a rapid pace

What is bad?

• It is difficult for Networking Education to keep up

It seems infeasible that education in this sector can match its advancements due to the financial barriers.
The Revolving Cycle

Approximately an 18-month to 60-month journey

Typical Collegiate Education

Network Engineering Industry Standard
Leaving Your Mark

• Invest in the future of your company and the field
• Lend a helping hand to the younger generation
  ➢ Recommend Collegiate Curriculum Changes
  ➢ Donate Networking Equipment to Network Engineering Departments
  ➢ Expand Internship, Co-op, and Mentorship programs
  ➢ Increase Continual Educational Programs for current employees, collegiate faculty, and collegiate Students
Ever Grateful...

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