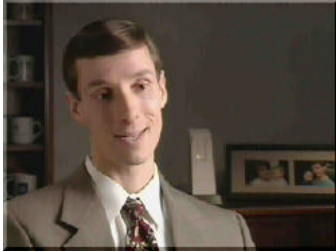




Sloan Career Cornerstone Center

Profiles of Materials Science and Engineering Professionals



Edward Krause

**Manager, Research and Development
Pilot Industries, Inc.
Dexter, MI**

Education:

1986 - BSE in Materials Science & Engineering, University of Michigan
1987 - MS in Materials Science & Engineering, University of Michigan

Job Description:

Research & Development

Advice to Students:

"Take a broad curriculum in ceramics, plastics, metals and composites rather than rushing to specialize in one area. As time goes on, plastics, metals and ceramics compete for many of the same applications -- one must understand them all."

Video Transcript:

"A small company really provided a great opportunity to sort of set our own course, and I think there's a lot more ownership there. There are a lot of benefits to a big company, the benefits tend to be stronger, there tends to be more structure and so forth -- but at a smaller company, you have a lot more freedom and it really depends what your personality is. If you want to set your own course, a small company is the place to do it."

Interview:

- Typical Day

7:00 AM - Get ready for work.
8:00 AM - Arrive at work.
9:00 AM - Individual work tasks.
10:00 AM - Meeting- technical.
11:00 AM - Meeting- technical.
12:00 PM - Lunch
1:00 PM - Individual work tasks
2:00 PM - Meeting- business
3:00 PM - Meeting- business.
4:00 PM - Confer with/advise subordinates

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5:00 PM - Individual work tasks.
6:00 PM - Head home or to pick up son.
Evening - Play with family, errands/tasks.

- Career Experience

1993-Present: Pilot Industries, Manager, Research & Development
1991-1993: Pilot Industries, Project Manager, Research & Development
1989-1991: Pilot Industries, Engineer, Materials Research
1988-1989: Pilot Industries, Consultant, Material

- Internships & Coops

1985: Engineering Assistant, Rockwell International
1984: Engineering Assistant, University of Michigan Transportation Research Institute.

- Honors & Awards

Patent #'s 5,257,500 & 5,554,425, Plunkett Award for Innovation with Teflon, MSE full stipend Graduate Fellowship, Outstanding Achievement Award for University of Michigan department of MSE.

- Best Preparation

Though academic study is important, work ethic, self confidence/attitude and communication skills are all far more important.

- Getting First Job

My consulting work resulted in an offer that I chose over three other offers.

- Advice

Take a broad curriculum in ceramics, plastics, metals and composites rather than rushing to specialize in one area. As time goes on, plastics, metals and ceramics compete for many of the same applications -- one must understand them all.

- Memberships

Society of Automotive Engineers, University of Michigan MSE Alumni Committee.

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