



**Institute of Industrial Engineers  
Chapter 47  
NEWSLETTER  
Greater Detroit Area  
Michigan**

**Mission:**  
*The Mission of the Detroit Chapter is to promote the advancement of Industrial Engineering by providing professional development information and resources to our customers.*

**Volume 49, No. 1**

**Jan-Mar, 2005**

Visit us on the web [http:// www.iiedetroit.org](http://www.iiedetroit.org)

**2005 Officers**

**Region VP**

Vito Wasniewski, Infonetics  
(248) 524-7319, vv6529@sbc.com

**President**

Dr. Bijay Nayak, American Axle & Manufacturing  
(313) 758-4167, bnayak@msn.com

**President-Elect & Affiliate Council V.P.**

Tej Jhamb, TJ Associates  
(248) 649-4081, tjhamb@msn.com

**V.P. Administration**

Vidyasagar Murty, Production Modeling Corp.  
(313) 441-4460, x1119, vidyasagamurty@yahoo.com

**V.P. Advertising**

Greg Andrysiak, TRW Inc.  
(734) 855-2590, greg.andrysiak@trw.com

**V.P. Community Service**

Victor Lloyd, William Beaumont Hospitals  
(248) 423-2403, vlloyd71@comcast.net

**V.P. Development & Past President**

Dr. Jayant Trewn, William Beaumont Hospitals  
(248) 423-2419, jtrewn@beaumont-hospitals.com

**V.P. Finance**

Vito Wasniewski, Infonetics  
(248) 524-7319, vv6529@sbc.com

**V.P. Information Technology**

Dr. Patrick Hillberg, Delmia Corporation  
(248) 797-1804, patrick\_hillberg@hotmail.com

**V.P. Membership**

Vinod Chauhan, Ford Motor Company  
(248)-442-8420, vchauhan@ford.com

**V.P. Newsletter Editor**

Ron Brzuch, Ford Motor Company  
(313) 322-9874, rbrzuch@ford.com

**V.P. Program**

Kristen Cavender, William Beaumont Hospitals  
(248) 964-8832, kcavender@beaumont-hospitals.com

**V.P. Public Relations**

Bob Fitzgerald, General Motors Corp,  
(586) 986-1327, robert.s.fitzgerald@gm.com

**V.P. University Liaison**

Dr. Darin Ellis, Wayne State University  
(313) 875-3412, rdellis@wayne.edu

**Student Chapter Advisors**

University of Michigan - Ann Arbor  
Dr. Aydin Goker - (734) 763-3459  
University of Michigan - Dearborn  
Dr. Munna Kacchal - (313) 593-5053  
Wayne State University  
Dr. Leslie Montplaisir - (313) 875-3412  
Dr. Darin Ellis - (313) 875-3412

WSU Student Chapter President  
Virginia Lingham  
U of M, Ann Arbor Chapter President  
Catherine Tallarico



**Technical Paper Competition  
Thursday January 27, 2005**

Wayne State University will be hosting the Local Student Technical Paper Competition. Show up early for pizza and pop and to mingle with students, faculty and other professional IIE members who will be judging the competition. See Page 3 and map on Page 8.

**Improving Value in R&D  
Tuesday, February 15th  
Joint Meeting, SAVE-GMC & IIE-GDC**



Join the Greater Detroit Chapter of the Institute of Industrial Engineers and the Greater Michigan Chapter of SAVE for a presentation on Improving Value in R&D. There is a \$10 charge for dinner. See announcement on Page 4 and map on Page 8.



**ESD 34th Annual  
Gold Award Banquet  
Wednesday, February 23, 2005**

See the ESD website for details at: [www.esd.org](http://www.esd.org)

The Banquet Dinner and Presentation is \$40. There is also an Order of Engineers Ceremony held before the Banquet that has a separate \$10 charge for the ceremony. Please contact Tej Jhamb at: (248) 649-4081, tjhamb@msn.com, early to be a possible Chapter-paid dinner guest. See Page 3 for more info.

**Joint Meeting with SME Chapter  
Wednesday, March 9th**



Join the Greater Detroit Chapter of the Institute of Industrial Engineers and the Oakland-Macomb Chapter of the SME for a presentation from Dr. Jay Baron. Dr. Baron has been evolving technologies in the auto industry, including Tailored Blank technology and its cost guidelines, process and dimensional control in sheet metal stamping/assembly, etc. A free dinner is provided for those who stay for the following board meeting. See Page 4 for more info and a map on <http://www.occ.cc.mi.us/Maps/AHCampus/>.

**TABLE OF CONTENTS**

<i>President's Message</i> .....	2	<i>Membership Report</i> .....	5
<i>Chapter Activity Report</i> .....	2	<i>WSU Student Sr Design Project</i> ....	5
<i>Upcoming Meetings</i> .....	3	<i>Long Term Chapter Plan</i> .....	5
<i>Meeting Announcements</i> .....	3	<i>Membership Activities</i> .....	6
<i>Meeting Announcements</i> .....	4	<i>Career Development</i> .....	6-7
<i>Holiday Meeting Results</i> .....	5	<i>Maps for Meetings</i> .....	8

## President's Message

by Bijay Nayak

Hello IIE Members & IE Practitioners,

First of all I would like to thank our outgoing President, Dr. Jayant Trewn for his dynamic leadership, direction and contribution to the chapter. Secondly I am grateful to all Board officers for electing me as President of the Chapter for 2005. I am pleased to accept your confidence in my organizational abilities and promise to make 2005, an exciting year full of a variety of programs, seminars, courses, networking opportunities and career enhancing information. I can count on your support & contribution and you can count on me.



This year my personal focus will be on the following activities & projects:

1. Develop joint partnerships and programs with other professional institutions in Metro Detroit area, such as SAVE, SME, APICS, ASQ etc.
2. Support IIE Region-4 Seminars & Courses being organized by Vito Wasniewski, Region VP.
3. Introduce a new IIE Student Chapter at Oakland University, Rochester Hills, Michigan.
4. Support Faculty of Engineering at Oakland University, Rochester Hills to introduce Under Graduate course in Industrial Engineering.
5. Organize "Lean Six Sigma Value Management" Symposium for Healthcare & Manufacturing industry.
6. Support IIE Student Chapters to develop their organizational leadership & professional skills, and promote IIE within universities.
7. Advertise Industrial Engineering profession in the community, schools, colleges & universities.
8. Encourage IIE members and IE practitioners to actively participate in community services in Metro Detroit area.
9. Focus on integration of Industrial Engineering with the currently practiced tools in the industry, such as Lean Manufacturing, Six Sigma, Taguchi, Quality Function Deployment etc.
10. Finally, provide IIE members an opportunity to experience cutting edge Industrial Engineering tools, techniques and concepts.

I am quite proud of the abilities & excellence of the Board of Directors of IIE Greater Detroit Chapter and am quite confident that with their unselfish support, contribution and cooperation, we shall fulfill the great expectations of IIE membership.

I personally thank you all for your membership and continuing support to IIE Greater Detroit Chapter. I encourage you to participate actively in the day to day activities of the chapter. I welcome you to get involved in the Board activities by attending Board meetings. If you have any comments or recommendations, please feel free to send me an e-mail at [bnayak@msn.com](mailto:bnayak@msn.com).

Thank you and have a wonderful year.

*Bijay*

## Chapter Activity Report (Dec-04)

by Bijay Nayak for Jayant Trewn

**1. Chapter Plans & Operations:** The 2005 Strategic Plans and Budget was submitted to IIE Headquarters. Held 12 Board Meetings.

**2. Chapter Programs :** Organized several programs such as Best Technical Award Presentation for the Student Chapters. Margie Krakauer was awarded \$100 for the best technical paper; IIE & SAVE Joint Chapter Meeting on Lean Manufacturing; IIE & APICS Joint Meeting; American Axle & Manufacturing Plant Tour; Ford Rouge Plant tour, Golf Outing, and Lean Six Sigma Symposium.

**3. Membership Communications, Growth & Retention:** Published 4 Newsletters full of exciting programs and chapter news. Continued with Chapter Member Survey, Information phone line for members to call and Exit Survey to promote membership. Upgraded Chapter Web-site and set up IIE Officer Group at Yahoo for faster communications.

**4. Student Outreach / Community Affairs:** Chapter Officers participated in the "ESD Revitalization of the Riverfront Project" Meeting. Victor Lloyd participated in building houses for Brainard Street Project in the Cass Corridor, Detroit. Wayne State University Student Chapter volunteered at Gleaner's Food Bank. Margie Krakauer of Wayne State University was awarded \$100 for the best technical paper. IIE-GDC introduced Welcome Message in Wayne State University BSIE Handbook. Vito Wasniewski attended Regional Conference at Ohio State University along with IIE-WSU Student Chapter Members. Jayant Trewn, Bijay Nayak, Khaled Mabrouk participated in Wayne State University BSIE Course Curriculum meeting. Vito Wasniewski organized Regional Pit-n-Bay trip for Wayne State University student members. Vito Wasniewski organized Ohio State University and University of Michigan game at Columbus, Ohio. Irv Otis scholarship of \$500 was awarded to the best IE student.

**5. Member / Chapter / Institute Support :** Greg Andrysiak was awarded Distinguished Service Award and IIE Detroit Chapter was awarded Partner of the Year Award at ESD Gold Award Banquet. IIE-GDC Board Members attended ESD Affiliate Council Dinner Meeting. Vito Wasniewski participated in Western Michigan University Golf Outing. Jayant Trewn, Vito Wasniewski & Munna Kachhal attended IIE National Conference 2004 and received Gold Award for IIE Greater Detroit Chapter. Jayant Trewn presented a technical paper on "A Treatise on Process Variation that affects Patient Flow in Hospitals" at Society for Health Systems Conference. IIE GDC hosted IIE Board of Trustees for 2006 IIE National Conference at Detroit. Bijay Nayak was elected as Vice President – Manufacturing at SAVE International. Jayant Trewn published a book on Multivariate Statistical Methods in Quality Management. Patrick Hillberg received his PhD. Degree from Oakland University.

**6. Score :** 2004 estimated Score = 89 which should make us eligible for the Gold Award.

If you have any news items related to member promotions, activities, awards, publications, or projects, training or workshops conducted, please forward it to **Dr. Jayant Trewn**, VP Development at Phone : 248-423-2419, E-mail : [jtrewn@beaumont-hospitals.com](mailto:jtrewn@beaumont-hospitals.com) to include in the Chapter Activity Report.

## Up Coming Events in 2005

Jan 27, 2005, Student Tech Papers Competition, WSU  
Feb 15, 2005, SAVE/IIE Joint chapter meeting,  
Value Mgt, Lean Mfg & 6 Sigma  
Feb 23, 2005, ESD Gold Award Banquet,  
Marriott Dearborn Inn  
Mar 09, 2005, SME/IIE Joint chapter meeting  
Apr 12, 2005, APICS/IIE Joint chapter meeting  
Apr 22, 2005, American Axle Manufacturing Plant Tour  
May 14-18, 2005, National IIE Conference  
Jun 17, 2005, American Axle Tech Center Tour  
Jul 17, 2005, Golf Outing  
Aug 17, 2005, The Harbour Report  
Sep 20, 2005, Student Chapter Joint meeting  
Oct 21, 2005, IIE Symposium  
Nov 15, 2005, Hospital Tour  
Dec 16, 2005, Inauguration and Holiday Dinner



### Technical Paper Competition Thursday January 27, 2005

By Gary Altman, Outgoing President IIE-WSU

Wayne State University will be hosting the Local Student Technical Paper Competition on Thursday, January 27, 2005 in the 2<sup>nd</sup> Floor Conference Room Manufacturing Engineering Building, 4815 Fourth Street, Detroit, MI.

A campus map is at <http://www.campusmap.wayne.edu/> or see newsletter back cover for Yahoo map.

6:00 – 6:30 pm, free pizza & pop  
6:30 – 8:30 pm, student competition

Show up early for pizza and pop and to mingle with students, faculty and other professional IIE members who will be judging the competition.



## ESD 34th Annual Gold Award Banquet Wednesday, February 23rd

Join us as we celebrate National Engineers Week at the annual *Gold Award Banquet*, honoring the engineering profession. This gala evening provides a forum for the *Affiliate Council of the Engineering Society of Detroit* and the *Affiliate Societies* to honor and congratulate members who have distinguished themselves through outstanding achievement and service within their respective societies.

5:30 pm----- Order of Engineer Ceremony  
6:00 pm----- Reception Cocktail (cash bar)  
7:00 pm----- Dinner  
8:00 pm----- Program honoring the award winners

The 34th Annual Gold Award Banquet is scheduled for Feb 23, 2005 at Dearborn Inn Marriot on 20301 Oakwood Blvd in Dearborn.

This gala evening features a cash bar and full service quality dinner, in addition to the award presentations. The dress for the evening is business attire for attendees. Guests are invited.

The Banquet Dinner and Presentation is \$40. There is also an Order of Engineers Ceremony held before the Banquet that has a separate \$10 charge for the ceremony. Please contact Tej Jhamb at: (248) 649-4081, [tjhamb@msn.com](mailto:tjhamb@msn.com), early to be a possible Chapter-paid dinner guest.

See the ESD website for details at: [www.esd.org](http://www.esd.org)

This ceremony was initiated in the United States in 1970 to foster a spirit of pride and responsibility in the engineering profession, to bridge the gap between training and experience and to present to the public a visible symbol identifying the engineer. ESD College of Fellows members are honored to host this ceremony where graduate and registered engineers will receive a ring as a symbol of their "Obligation of the Engineer".

Any engineer who has graduated from an ABET – accredited engineering program or holds a license as a Professional Engineer is eligible for participation in the "Order of the Engineer" ceremony. The "Order of the Engineer" is not a membership organization; there are never any meetings to attend or dues to pay. Family and friends are invited to take part in this celebration.

## Improving Value in R&D

Tuesday, February 15th

Joint Meeting, SAVE-GMC & IIE-GDC



Drew M. Algase, a Six-Sigma and Lean Systems Master Black Belt for the Corporate Technology group of Freudenberg-NOK, will be speaking on improving value in R&D.

Improving Value in R&D, Tuesday, February 15th  
Social 5:30 PM

Dinner 6:00 PM, Cost is \$10

Meeting 6:30 PM—7:30 PM

At Freudenberg NOK, 47690 East Anchor Court,  
Plymouth, Michigan 48170, 734 451 0020.

### SAVE

SAVE International is the premier international society devoted to the advancement and promotion of the value methodology (also called value engineering, value analysis or value management). Value methodology benefits include decreasing costs, increasing profits and improving quality.

SAVE society members practice the value methodology in the public and private sectors for organizations in more than 35 countries. VM applications span a variety of fields, including construction, corporations and manufacturing, transportation, health care, government and environmental engineering.

SAVE International offers member services such as education and training, publications, tools for promoting the value methodology, certification, networking and recognition.

### About the Presenter

Drew Algase is a Six-Sigma and Lean Systems Master Black Belt for the Corporate Technology group of Freudenberg-NOK General Partnership, a leading supplier of sealing and vibration control systems to the automotive industry. Drew directs Continuous Improvement, VAVE and Six-Sigma activities, which complement Freudenberg-NOK's global lean systems program called GROWTTH (Get Rid of Waste Through Team Harmony).

Drew has over twenty-five years of engineering and manufacturing management experience with automotive, food processing and consulting industries. Drew is a graduate of the University of Toledo with BSME/IE and MBA degrees. He is a Certified Value Specialist (CVS) through SAVE International and a member of SAE and the IIE. He serves on the SAVE Board of Directors as the VP of Manufacturing.



Joint Meeting,  
SME Chapter 69  
& IIE Chapter 47  
Wednesday, March 9th

**WHAT?** SME Chapter 69 Executive Board Meeting

**WHEN?** Wednesday, March 9th at 6:00 pm

**WHERE?** Room T-6, Advanced Tech. Center building 'T',  
Oakland Community College, Auburn Hills campus

**See a map** on <http://www.occ.cc.mi.us/Maps/AHCampus/>.

**WHY?** Each Month's Meeting begins with a one hour  
Technical Presentation by a Keynote Speaker

SME Chapter 69 of Oakland and Macomb counties are invited to meet the members of the board, to spend an evening networking with other professional people, and to offer your input to the continued growth and success of your organization. (And bring a guest if you would like!)

Attend and you will also meet members of SME Student Chapter's S-224 and S-144, representing Oakland University and Oakland Community College. *And SME provides a free dinner!*

Come, share, and learn more about manufacturing, and partake of free food. We'd like to see you there! Make plans to attend. The SME Chapter 69 website is at:  
<http://chapters.sme.org/069/homepage.htm>

### About the Presenter

Dr. Jay Baron, Director, Manufacturing Systems Group, for the Center for Automotive Research (CAR).

Dr. Baron holds a Ph.D. and Master's Degree in Industrial and Operations Engineering from the University of Michigan and an MBA from Rensselaer Polytechnic Institute.

Dr Baron has been researching techniques for achieving process and dimensional control in sheet metal stamping and auto body assembly. As part of his doctoral research, he has developed new analytical methods and procedures to support the dimensional analysis and control of stamped metal assemblies.

Dr. Baron has also been researching evolving technologies in the auto industry. He has studied plants in Europe, Japan, and North America looking at body shop design and flexibility. Recently, he completed reports entitled, An Overview of Tailored Blanks and Their Technology for the Auto/Steel Partnership; and Tailor Welded Blanks Cost Guidelines.

Dr. Baron has managed consulting projects for over 20 different companies in applying new manufacturing technology. Several projects were concerned with manufacturing systems and economic modeling to evaluate the strategic and tactical deployment of technology.

## December Holiday Meeting Results

The holiday party was attended by 22 members, past board members, families and friends. The salad bar and dinner entrees were enjoyed by all and the follow-up dessert was sumptuous.

The out-going President of the IIE Greater Detroit Chapter, Dr. Jayant Trewn, thanked the out going board for their dedicated effort to make 2004 another great year full of exciting programs and plant tours. He also relayed the results of the elections for the 2005 Greater Detroit Chapter Board and introduced the in-coming President, Dr. Bi-jay Nayak.

Dr. Nayak gave a talk about how he plans to keep the momentum of the past years into the next year. He also mentioned about the impact of the loss of manufacturing jobs in the Detroit area, on the chapter membership, and how we need to keep this in mind as we embark on another year of activities.

## Membership Report

From 10/4/04 to 12/2/04, TOTAL MEMBERS = 248

### NEW MEMBERS

Lucas, Annemarie C.	Wright, John L.
Price, Kevin A.	Dessert, Patrick E.
Yang, Kai	Sengupta, Abhijit
MacDonald, Janet R.	Miles, Benjamin Seth
Dziuban, Roxanne M.	Mcgraw, Janine S.
Velick, Stephen	DeWitt, Christopher Paul
Butka, Stephen J	

### TRANSFERS INTO THIS CHAPTER

McSwain, Tyron	Casler, Michael G.
Dupuis-Johnson, Julia A.	Kong, Zhenyu
Park, Namkyu	

### WSU Student Senior Design Project Seeking a Sponser

Wayne State University's Department of Industrial and Manufacturing Engineering is seeking a sponsor for its Capstone Design Project course sequence starting in January 2005. The 2-course sequence consists of 1 credit in the winter (Jan-April) for project planning and scope-setting and 3 credits in summer (May- July) for design, analysis and implementation. Projects should have the potential for demonstrable and quantifiable value to the sponsor, and should employ solid IE tools and methods. For further information, please contact Dr. Darin Ellis, IME Undergraduate Program Chair at 313-577-3296 or rdelis@wayne.edu

## IIE CHAPTER #47 LONG TERM STRATEGIC PLAN

### VISION AND MISSION

The mission of the Detroit Chapter is to promote the advancement of Industrial Engineering by providing professional development information and resources to our customers.

### 1.0 MEMBERSHIP

- 1.1. Stabilize membership from its recent 3-year decline.
- 1.2. Membership Drive Programs:
  - 1.2.1. Advertise through our Chapter's linked websites and prepare publicity to local newspapers.
  - 1.2.2. Advertise through IIE sponsored seminars, function and through other engineering organizations.
  - 1.2.3. Actively support the Student Chapters in the local Universities.
  - 1.2.4. Contact and welcome new members and contact those not renewing their memberships.
  - 1.2.5. Contact members who's dues are about to expire
  - 1.2.6. Proactively approach companies and individuals concerning membership in IIE
  - 1.2.7. Membership activity database – monitor member involvement in chapter and IIE activities. Welcome to Detroit Chapter introductory package (letter, directory and meeting coupon). Contact Members that do not renew IIE membership and identify root causes

### 2.0 FINANCIAL

- 2.1. This Chapter shall operate with a balanced budget every year.
- 2.2. This Chapter shall plan yearly programs to raise money for scholarship funds and other community activities.

### 3.0 PROGRAMS

- 3.1. The Chapter shall specify plans for future programs in its yearly or short-term strategic plan.

IIE Greater Detroit Chapter 47 : 2005 Budget		
<b>Income</b>		
	Fall Conference Income	\$2,000
	Advertising	800
	Contributions Received	100
	Dues Income	3300
	Interest Income	185
	Fidelity Income	250
	Miscellaneous Income	100
	Monthly Meeting Income	650
	Irv Otis Golf Outing	300
	Newsletter Income	0
	<b>Total Income</b>	<b>\$7,685</b>
<b>Expenses</b>		
	Community Services	\$90
	Fall Conference Expenses	1,000
	Conference Expenses	300
	Contributions and Grants	0
	Interest Expense	0
	Member Services	125
	Miscellaneous Expenses	400
	Monthly Meeting Expenses	550
	Newsletter Expense	1400
	Officers and Chapter Meetings Expenses	1170
	Presidents Conference Expenses	1700
	Student Development Expense	800
	Chapter Operations Supplies	150
	<b>Total Expenses</b>	<b>\$7,685</b>
	<b>NET BALANCE</b>	<b>\$0</b>

# Membership Activities

By Victor Lloyd, letter dated 12-21-2004



## Community Service Updates and Activities:

1. The Brainard Street Project in the Cass Corridor is coming along well with some delays. All 20 of our brand new buildings are now up with the utilities connected.

We had 40 apartments ready and the tenants ready to move in last Friday but the City of Detroit came up with a last minute plumbing code requirement which prevented the tenants from moving in on Friday. We pulled some contractors in over the weekend and took care of business so our new tenants can move in this week.

Our board of directors worked very hard to address this issue for all of those new tenants who had to reschedule their moves.

2. We had a Christmas Party for the residents and homeless of the Cass Corridor last Friday from 3PM till 7PM. The party was held in our new Community Center that we constructed. We continue to make improvements in our Community Center. We are obtaining some grants and donations to finish building our new commercial grade kitchen to help in serving the homeless and to make our facilities available to be rented out for Community Events.

3. We have a group called Idle Kids that rents space from us in the front of our Community Building complex that has a tremendous new business serving the underground music population. They bring in top bands that now perform in our Community Center. There were 300 of them that competed in a battle of the band contest. They made a lot of money and now help contribute to the community by bring in local artist and national artist to expose the talents of the local Cass Corridor Community artists. They also house one of the largest underground local political expression libraries and poetry collections from local artists.

There are rising rap stars with a social expression in their music that are developing a very big reputation in the hood and hoods around the nation in such places like Harlem, South Bronx, LA and in Atlanta.

4. I have also been spending my Friday's off working in the Detroit Public schools in some of the most hard pressed areas assisting teachers with their students for the Future Cities Competition sponsored by the ESD.

I am the mentor for the Munger Elementary School - I am helping the teacher assist her students in developing a computer model for their city of the future. We have completed the Essay and Abstract for the competition. We turned it in yesterday to the ESD. We will be building the physical model of the city after the school break is over.

I am also the mentor for the MalcomX school and this group is coming along rather slowly since they got started so late in the process, but they really want me and I will also be giving a presentation to the students in January on "The Engineering

Profession" and the various fields of specialty it has to offer those dedicated to the profession.

5. I am also a member of a special Community group that will begin discussions in Jan-05 along with members of the Detroit City political machine on how to address the issues confronting the Detroit City. We plan to tackle some of the tougher problems focusing on grass roots community initiatives in the areas of the homeless, improved education of our children, job creation that is NOT dependent on the automotive firms, housing, small business opportunities and healthcare for those in need of care who cannot presently obtain it.

6. I plan to assist with serving food in one of the shelters that I went to as a kid for the holidays as well.

The beat goes on!!! Power to the needy and God forgive those who are too greedy. I spend a lot of time in Detroit helping where I can and when I can. It is fuel for the soul.

*Detroit Chapter IIE members can get the fuel for their soul by contacting Victor Lloyd: (248) 423-2403, villoyd71@comcast.net . Please ask what opportunities are available and find out if there is a project that you would like to volunteer some of your time.*

## HELP WANTED

Job description: **Manager of Industrial Engineering** Detroit Metro Area

Goals / Main tasks (short description)

1) Module assembly & Sequencing planning & execution (70% of time)

Create, optimize and compare module assembly and sequencing concepts including but not limited to assembly lines and independent assembly cells for front-end modules

2) Injection molding and Stamping planning & optimization (30% of time)

Plan from the early conceptual advanced stages to the final fine-tuning of hands-on execution : plastic injection molding, steel stamping and any plastic-metal bonding activity necessary to the production of front-end carrier panels

Requirements in Education: Bachelor's degree in industrial or manufacturing engineering is mandatory. Master's is optional

Professional training: Production systems. Position specific background and experience required. At least 6 years practice in industrial engineering, technical planning, technical logistics.

Additional knowledge required: Minimum 8 to 10 years experience with automotive supplier.

Proven experience in modular assembly processes with complex locator schemes/GD&T such as front-end modules, chassis modules, Instrument Panels, seats.

John Chaplin  
Morgan Group  
11111 Carmel Commons Blvd.  
Suite 160  
Charlotte, NC 28226  
800-456-0567 ext 15  
jchaplin@themorgangroup.com

# Career Development

## Help Wanted



### NOTICE OF ENTRY-LEVEL JOB OPENING

#### Planning Technician (Engineering Assistant)

Major Natural Gas Pipeline Company headquartered in Troy has an entry-level opportunity for a current Engineering student to assist in the analysis of the pipeline system in order to maximize throughput and revenue opportunities.

**EDUCATION:** Completion of the first two years of Engineering (electrical, mechanical, or industrial) four-year degree required.

**EXPERIENCE:** Some job-related (administrative, technical, staff engineer, and/or facility/system planning duties) experience preferred. Experience or knowledge of computer-simulation preferred. Personal computer experience in Microsoft Word, Excel, and Access, or equivalent required.

**OTHER:** This is an entry-level position designed for a current engineering student. Flexible hours may be available to work around school schedule; however, a minimum of 30 hours per week is required. This position is eligible for Company benefits. Rate of pay is \$14.00 to \$20.00 depending upon amount and type of education and experience.

**TO APPLY:** Send detailed resume to Susan Woonton, HR/Employment Specialist, 5250 Corporate Drive, Troy, MI 48098; Fax (248) 205-7640; E-mail [jobs@glgt.com](mailto:jobs@glgt.com). Company information: [www.glgt.com](http://www.glgt.com)

#### Senior Quality Engineer - North Dayton

**EDUCATION REQUIRED:** 4 year degree in engineering (degree is preferred but strong work experience may be a substitute). ASQ CQE/CQA is desirable.

**YEARS OF EXPERIENCE NEEDED:** 5-10 years

**SALARY RANGE:** \$45,000 to \$60,000 (depending on experience)

**HOW TO APPLY:** Send a copy of your resume to me by fax or e-mail.

Please include your salary requirements and details related to hands on experience with improvement projects, actual examples preferred.

Thomas Banks, Quality Manager, Encon Inc., (937) 898-8447 Fax, [tbanks@enconco.com](mailto:tbanks@enconco.com)

#### QUALITY MANAGER

Talented Manager needed to direct a quality program. You must have strong consumer focus and be adept at sustaining ISO 9000:2000 programs. You must have strong knowledge of quality systems, problem solving and manufacturing processes. You should have a Bachelors Degree in Engineering with two to five years of management experience. CQE ors CQM certification preferred. Working knowledge of refrigeration processes desired.

For consideration please send resume and salary requirements to the address below or e-mail to [psweeney@norcold.com](mailto:psweeney@norcold.com). No phone calls please. For more information visit our website at [www.norcold.com](http://www.norcold.com).

Human Resources, Norcold, Inc, P. O. Box 180, Sidney, OH 45365, Fax (937) 497-3129

All replies confidential. An equal opportunity employer.

To further expand our business, DRS Engineering Development Labs, Inc. (DRS EDL) located in Dayton, Ohio, has several new positions. DRS EDL founded in 1986, is a growth-oriented company supporting the Department of Defense in prime and subcontractor product development, manufacturing, and support roles. DRS EDL develops and manufactures avionics equipment and support products for airborne platforms employed by United States and friendly foreign military services. We offer new employees an opportunity to be a part of a very rapidly growing and successful engineering company in the military avionics business.

DRS EDL provides a challenging work environment, exceptional opportunity, excellent benefits, including an employee incentive plan, relocation package, health care and dental plans, life insurance, short-term and long-term disability insurance, 401(k) plan, flexible work schedules, competitive pay and flexible spending benefits among others.

Must be a U.S. citizen. Applicants selected will be subject to a government security investigation and must meet eligibility requirements for access to classified information.

Fax, mail, or email your resume to:

DRS Engineering Development Labs, Inc., Attn: H. R. Administrator, 4391 Dayton-Xenia Road, Dayton, Ohio 45432, Fax: (937) 429-7176 E-mail: [bmanuszak@drs-edl.com](mailto:bmanuszak@drs-edl.com)

#### Quality Assurance Manager

**EDUCATION:** 4 year technical degree or equivalent.

**EXPERIENCE:** 10+ years relevant military avionics design experience. Proven track record in supervising people and projects. Thorough knowledge of ISO and CMM regulations and standards. Detail oriented. Must possess excellent oral and written communication skills.

#### Software Quality Assurance Engineer

- BS/MS in Computer Science, Mathematics, QA or equivalent and a minimum of 3 years of Software QA experience.
- Must have in-depth experience in process improvement programs and software quality planning and process audits of complex software development programs.
- Strong leadership skills, demonstrating initiative and problem-solving skills.
- Candidate should possess flexibility and excellent communication skills.
- Demonstrated ability to initiate and implement process changes.
- An excellent working knowledge of SEI CMM or CMMI and the ISO family of standards.

If any Chapter member would like to post a job opening or situation wanted, please contact: Greg Andrysiak at (248) 442-8607, [greg.andrysiak@trw.com](mailto:greg.andrysiak@trw.com). Please see our website at [iiedetroit.org](http://iiedetroit.org) for the latest job openings or situations wanted.

#### +++ Looking for top-notch employees? +++

Begin your search at IIE's new online Career Center, which offers all the features you need to find qualified employees. No matter what your staffing needs or budget, we have a recruitment tool for you.

Contact IIE Sales Department to purchase unlimited postings and resume searches for a year. Call Jack Eller at 770-349-1109, or Tom Miller at 770-449-0461 ext.127.

Are you looking for an outstanding job? We have your needs covered, too. Go to [www.iienet.org/careercenter](http://www.iienet.org/careercenter) and see all the services IIE's new Career Center has to offer you!

**IIE Technical Paper Competition  
Thursday, January 27, 2005**



Wayne State University, Manufacturing Engineering Building  
Second Floor Conference Room  
4815 Fourth Street, Detroit, MI 48202

**Improving Value in R & D  
Tuesday, February 15, 2005**



Freudenberg-NOK, Corporate Headquarters  
47960 East Anchor Court, Plymouth, MI 48170  
From Detroit Metro Airport take I-94 west to I-275 north to M-14 west. Exit at Beck Rd. Turn right (north). Turn left into Metro West Technology Park (Halyard Rd.). Turn right onto Anchor Drive and right again onto E. Anchor Court

Institute of Industrial Engineers #47  
c/o Ron Brzuch  
7247 Almaden Court  
Canton, MI 48187

**DATED MATERIAL**