Engineering Insights

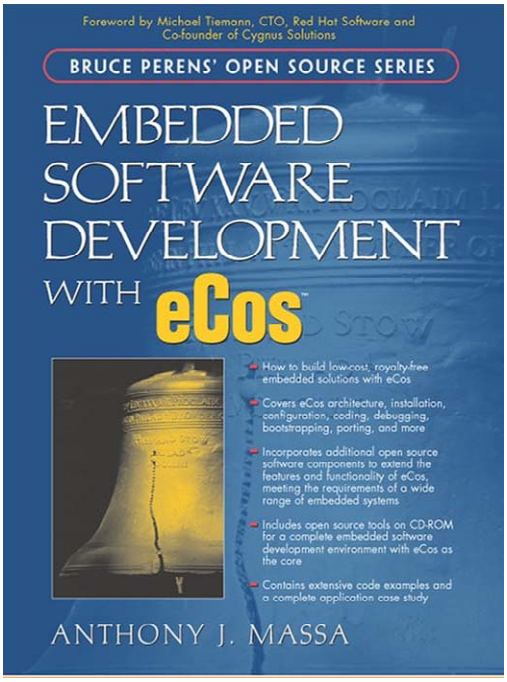
Newsletter for the University of San Diego Department of Engineering

Editor: Dr. Kathleen Kramer — Assistant Editor: Lorena Silvas

Volume 8 — May 2004

Book Written by USD Engineering Alum

USD Engineering alumnus Anthony J. Massa has written a book, *Embedded Software Development with eCos*. It is a guide to building solutions with eCos, a flexible, no-royalty embedded software development platform. The book has received many positive reviews and is highly rated on Amazon.com. Before writing this book, he authored articles on eCos in many leading publications, including *Doctor Dobb's Journal*, *Embedded Systems Programming*, and *Software Development*.



Anthony J. Massa completed his B.S./B.A. degree in electrical engineering at the University of San Diego in 1994. Since then, he has developed embedded software, device drivers, and applications on a wide range of processors and embedded RTOS platforms, for successful products including satellite PC receiver cards and modems, set-top boxes, networking broadcast equipment, and Internet-enabled wireless modems.

In This Issue of Engineering Insights:

New Game, New Rules

By Brian Graham

Mr. Brian Graham, technical recruiter and author of an upcoming book on the subject, was the most recent convocation speaker…an excerpt of his words of wisdom on career planning and life-long learning to new graduates is included below.

Change will be a constant in your career life, and you need to anticipate such change, and embrace it, rather than being caught off-guard.

Traditional employees plan on having a long-term relationship with each employer. They believe that if they work hard and do an outstanding job, they'll be rewarded over the long term for their loyalty. They believe that their company deserves their trust and cares about their well-being. And many people still believe it is the company's job to provide them with financial security, benefits, training, and opportunities for career advancement.
That approach worked for decades, but this day and age it doesn't work as well any more.

cont'd

If that's what you're expecting from an employer, you may want to rethink that expectation. In all likelihood, it's not going to happen. Instead, you need to have the mindset of what I call a "skills-based worker". Unlike a traditional worker, a skills-based worker fully understands that there's no such thing as job security, and focuses instead on long-term "career security." Skills-based workers aren't company men or women. Instead, they define what's important to them and structure their careers around their personal goals. They're also open to new ideas.

Unlike traditional workers, who expect companies to map out their career paths for them, skills based workers take charge of their own training and career advancement. They're not frightened of change, and rather than fall into a rut, they'll seek out new job opportunities. Most importantly, skills-based workers know that they, and not their employers, are in charge of their destiny. Being a skills-based worker means that you don't think of your employer as a surrogate parent who will patiently and kindly take care of you for many years to come.

In addition, to survive and thrive, you need to initiate contact with professionals in your chosen field, and personal friends who can help you when you're making career moves—just as you will be able to help them. This is a process you can start today by staying in touch with the people around you. Your professors and fellow students are your first level of contacts, and someday one of them may steer you to the perfect job—so be nice to them!

One more survival tip, which you may not want to hear at this particular moment, is to keep learning every day of your life. When you leave the USD campus with your degree in hand, you may be tempted to think that your education is complete. But technology advances so rapidly these days that your skills can become obsolete in a matter of years. To stay at the top of your game, you need to constantly expand your knowledge base, by reading technical journals, getting regular training, and taking every opportunity to learn new skills both on and off the job. Every new skill you pick up—whether it's a new engineering competency, a foreign language, or perhaps management training, it will make you more employable somewhere down the road. Take stock of your personal career skills and knowledge every six months or so, and if you haven't mastered something new, do it. You won't regret it.

Even more importantly, being a skills-based worker means creating your own job opportunities. To do that, you have to not depend on "the system," and instead become your own recruiter. This takes a lot of work, but the result of being your own recruiter is that you should be able to find a new or better job, no matter what the job market is.

What do I mean by "being your own recruiter?" I mean doing for yourself what I do for my clients. In my role as a recruiter, I find a quality candidate for a quality employer. I do this by identifying the people I need to know, and contacting them to see if we can develop a mutually beneficial relationship. It's simple, but it's also hard. Believe it or not, not everyone wants to talk with me.

My job is to find the right person for the right company and get the right fit. The same principles apply to your job search, but you already know the right person (yourself) now you just need to find the right company and the right fit.

If you take all of these steps, you will virtually guarantee not only that you'll get a job now, but also that you'll be able to get a job any time you need one.

The Latest Senior Projects

Every semester, the Engineering Department has an Open House where seniors in each major demonstrate their capstone design projects. Our next Engineering Open House will be held on the afternoon of Friday, December 10. This event is open to all interested members of the public. Contact our office at 619-260-4627 or usdengr@sandiego.edu for more information. Here is a sampling of some current and recent projects:

Easy Park (EE)
Easy Park is a system that monitors how many cars enter or exit this lot.
The main output of the Easy Park system will be a numerical display showing the number of parking spots available in the parking lot. Pressure sensors and associated programming is used to distinguish between cars entering and exiting and to avoid erroneous counting. Communication requirements include transmitters and receivers that transmit signals up to 300ft. to allow ongoing display updates.

Linda Vista Health Care Center – Patient Wait Times (ISE)
Often times, patients find themselves waiting to be seen by a doctor or nurse after their scheduled appointment time has already passed. If no appointment has been made, patient wait time is usually much longer – and for a sick patient, this wait can be very frustrating. The purpose of this project is to reduce the wait time for a patient visit at the Linda Vista Health Care Center. By identifying bottlenecks and inefficiencies in the clinic's current processes and system of operation we will develop recommendations for system changes that will improve efficiency and better the quality of the patient's visit. The focus is to reduce the patient's overall time in the clinic by reducing the amount of time that the patient sits idle, waiting.

cont'd

Seniors Kimberly Kawahara, Tom Congdon, and Julie Dang Presenting Their EZ Park Project

Quantum Group – Quality Inspection Improvement (ISE)
The task was to improve a quality inspection task at the facility, which employed the use of computer vision to detect minor defects in parts on the assembly line. This project required knowledge of quality control, manufacturing processes, and computer vision hardware and software.

Quick Cart Checkout System (EE)
Actions that are normally done at the checkout line will be done by a consumer as they shop. It is an apparatus contained within the shopping cart that consists of three main components: a barcode scanner, a scale, and a central processing unit with display – allowing store customers to scan and total their items as they shop. Communication between a central database and individual shopping cart quick checkout unit allows customers to access their store account. The system will allow a more efficient and personalized shopping experience for the customer.

SAIC – USNO Clock Simultaneous Update (EE)
The USNO Master Clock, located in Washington DC, is responsible for transferring the "master" time to eight remote substations. Currently, the transfer between the master clock and the remote substations is done one-by-one via satellite. The master clock and each of the eight remote substations have one transmitter and one receiver.
The project implements is a modem (modulator/demodulator) having a multiple channel receiver that permits two-way time transfer, improving the current one-by-one update.

Signal Strength Mapper (EE)
The device to be designed will record mobile phone signal strengths across a vast area. Data from a small autonomous device capable of collecting cell phone signal strength and GPS location at short regular intervals will be processed via Matlab programming and presented in a graphical format laid over a map. This device performs its task on vehicles that transverse the city regularly such as taxicabs or delivery trucks. The results will be freely available via the internet and will provide the Mobile phone users and potential users with a tool to make more informed decisions.

Engineering Happenings…..

Organizational matters

Dr. Kathleen Kramer, Associate Professor of Electrical Engineering has been named Director of Electrical Engineering Programs and Chair of the Department of Engineering. Dr. Bradley Chase, Assistant Professor of Industrial & Systems Engineering, has been named Coordinator of the Industrial & Systems Engineering Program.

Meet Lorena Silvas

Our newest staff member, Lorena Silvas, is an Executive Assistant who has more than six years experience in the education administrative field. She has also been very active in several committees where she helps with coordinating events. She has been a participant in programs such as: Meals on Wheels, Annual, Holiday and Graduation Committee, for University of Phoenix. Lorena also participates in a non-profit organization, Bright Families, where she helps coordinate and fundraise for different events. Lorena has a Bachelor's Degree in Business Management, and would like to pursue her Master's degree in the near future.

Our New Executive Assistant, Lorena Silvas

New Educational Objectives and New Advisory Board for Industrial & Systems Engineering Program

The new Industrial & Systems Engineering Advisory Board (ISEAB) membership is intended to include representatives of local industry actively involved in technical and business innovations at their companies, including at least one USD alumnus or alumnae. The role of the board is to provide effective review of the program, the appropriateness of its objectives, and evaluations of how well the objectives are achieved. Its membership includes:

- Suneel Bhasker, County of San Diego
- Raul Carmona, Plantronics
- Glyn Davies, BAE Systems
- Nicoletta de Checchi, Kontron
- John Kammerer, Space and Naval Warfare Systems Command
- Celal Kaplan, Kiran and Associates
- Karen Martin, Karen Martin & Associates
- Philip Ritger, Avail Medical
- Stan Settles, University of Southern California

Providing input on the Program Educational Objectives was one of the tasks tackled by the board. New Program Educational Objectives have now been approved by the faculty.

The Educational Objectives of the Industrial & Systems Engineering Program are to develop graduates who:

1) Have established careers in industrial and systems engineering in industry, service, consulting, or government organizations.
2) Design, develop, implement and improve integrated industrial and service systems to achieve organizational goals.
3) Collaborate with others as a members or leaders of engineering or multidisciplinary teams.
4) Continue to develop skills in engineering, business, management, or other industrial and systems engineering related fields.

Welcome Our Newest Faculty….

We are pleased to introduce three new faculty members. Dr. Frank Jacobitz started last fall and Drs. Luke Miller and James Kohl are starting this fall.

Dr. Frank Jacobitz

Dr. Frank Jacobitz

Dr. Frank Jacobitz, Associate Professor of Mechanical Engineering, is our first tenure-track Mechanical Engineering faculty member. He received his Diploma in Physics from the Georg-August University, Göttingen, Germany in 1993, and his Doctor of Philosophy in Mechanical Engineering from the University of California, San Diego in 1998. Dr. Jacobitz's research focuses on the direct numerical simulation of turbulent flow.

Dr. James Kohl

Dr. James Kohl

Dr. James Kohl is an Assistant Professor of Mechanical Engineering. Originally from

cont'd

Fishkill, NY, Dr. Kohl comes to USD after being a faculty member at the US Military Academy at West Point. He earned his Ph.D. in Mechanics at Rensselaer Polytechnic Institute, his M.S. in Mechanical Engineering at the University of Massachusetts at Amherst, and his B.S. in Mechanical Engineering at Western New England College.

Dr. Kohl's research interests are in Failure Analysis, Coatings for Gas Turbine Engine Components, Silicone Coatings, Tribology, and Adhesion. He has significant industry experience, including serving as Vice President of Airfoil Operations and Engineering, Technical Director, and Program Coordinator at Chromalloy Dallas. In 1999, he won the Alan Berman Research Publications Award in Applied Research in the Chemistry Division at the Naval Research Laboratory.

Dr. Luke Miller

Dr. Luke T. Miller is our newest Industrial & Systems Engineering faculty member. He has an exemplary record that includes receiving the Institute of Industrial Engineers Gilbreth Memorial Fellowship (Best Graduate Student award) in 2003. He will join the faculty as an Assistant Professor this fall. Dr. Miller has teaching and research interests in the areas of operations research, strategic operations management, financial engineering, and economic decision analysis. Dr. Miller received his PhD in Industrial Engineering from Auburn University in April 2004.

Faculty Happenings…….

Congratulations to Dr. Michael Morse who has been promoted to Professor of Electrical Engineering and to Dr. Mikaya Lumori who was awarded tenure effective Fall 2005.

Dr. Ernest M. Kim, Associate Professor of Electrical Engineering, was married this May in a Hawaiian-themed wedding. Congratulations to him and his new wife Julia on their new life together.

Ernest & Julia Kim

Dr. Michael S. Morse, Professor of Electrical Engineering, was also married this summer. His wedding took place in beautiful Kauai, Hawaii. Congratulations to him and his new wife Dr. Jennifer Berg on their new life together.

Mike and Jennifer Morse

Our Recent Graduates

The USD Engineering class of 2004 set a record in size as the largest yet. The graduating class of 2004 includes students getting their degrees in January 2004, May 2004, or August 2004. Seventeen earned a BS/BA in Electrical Engineering and twelve earned a BS/BA in Industrial & Systems Engineering. No graduates yet in Mechanical Engineering – our first class of Mechanical Engineers is in the pipeline, however, this fall we will have the first juniors in that major.

Here's what some of our recent graduates are up to:

- Melody Ablola (ISE) is an Industrial Systems Engineer for Teledyne Interconnect Devices supporting documentation and manufacturing.
- Nicholas Barker (ISE) is an Industrial Systems Engineer for Boeing NASA Systems and working at Kennedy Space Center in Florida.
- David Brackman (EE) and Eric Perterson (EE) are Electrical Engineers working for KVD in Carlsbad, CA. The company specializes in automated test equipment for mixed-signal semiconductors. David and Eric are involved in the design of test boards.
- Eric Foronda (EE) is an Electrical Engineer at Sony Technology Center in San Diego, CA. This Sony facility has evolved into one of Sony Electronics' most diverse operations in North America. There are more than 15 different businesses in the areas of television, computers and digital technology. It has become an innovative center for product design, development and manufacturing, with the ability to take an idea from concept through full-scale production all at the same site.
- Daniel Guzman (EE) is an Electrical Engineer for DCMA San Diego. The Defense Contract Management Agency

(DCMA) is the Department of Defense contract manager, ensuring acquisition programs are delivered on time, within cost, and meet performance requirements.

- Nicholas Hoffman (EE), Joshua Rehfeld (ISE), and Patrick Weed (ISE) were commissioned as officers in the U.S. Navy. Nicholas will be attending surface warfare school and is based in San Diego, CA. Joshua will be going to navy flight school. Patrick will be attending nuclear power school.
- Leonel Ibarra (EE), Kyle Thompson (ISE), Jonathan Velte-Smith (ISE) , and Adrianna Zammit (EE) are working for Northrop Grumman Corporation in San Diego, CA. Leonel is a Radio Frequency Engineer. Kyle and Jonathan are Industrial Systems Engineers specializing in ensuring quality. Adrianna is a digital engineer.
- Markos Kalemkeris (EE), Jerad Peterson (EE), and Samuel Stewart (EE) are each working as electrical engineers specializing in hardware or software design for General Atomics Aeronautical Systems. This company is dedicated to the design, development, and manufacture of unmanned aircraft surveillance systems and associated hardware.
- Seamus Keith (ISE) is working for NYPRO doing lean process engineering.
- Rodrigo Lari (ISE) is working a production engineer at Proctor & Gamble in Mexico City.
- Aaron Milam (EE) is an Electrical Engineer at the NASA's Jet Propulsion Laboratory in Pasadena, CA.
- Derek Maxwell (EE) is doing both digital and analog design on a variety of communications projects at ViaSat in Carlsbad, CA.
- Jarad Smith (ISE) is a systems engineer at Raytheon in San Diego, CA.
- Phillip Thrash (EE) is a Project Engineer for Dick Engineering in Maui, Hawaii. Dick Pacific is the largest general contractor in Hawaii and is part of Dick Corporation, a Pennsylvania-based company.

Alumni News

Class of 1992
Michael Buckley completed his of Masters of Science degree in Global Leadership at the University of San Diego in 2000 and married Teresa Tierney Buckley who he met at that USD program. They have a two-year-old daughter, Sarah.

Class of 1993
John Slaney is working at Nor-Cal Products, a company that does pressure control systems for semiconductor manufacturing in San Diego, CA. John is responsible for the company's boards including their core DSP platform, power supplies, I/O boards, battery backup/chargers...even a touch-screen controller. In other news, he has been doing a little bit of recording on bass, and his group hopes to release a CD later this year.

Class of 1994
Daniel Ettlich along with wife, Jenna, and daughter, Faith, are living in Pearl City, Hawaii. He continues as an officer in the Navy.

Andrew Isaksen retired from Machine Vision Products after working with them for 8-1/2 years, including being a senior manager in charge of the Customer Support division for 4 years. He is currently enrolled in the USD International MBA program. The program involves studying for a year at USD and then studying in Monterey, Mexico for a year at Tec de Monterrey. He will also be traveling to Lima, Peru for an International Practicum that is a required part of the program.

Class of 1996
Daniel Leuthner is a Consultant Engineer for FM Global, the largest property insurance company in world. The company focuses on identifying hazards and helping the customers understand the business risk (big picture...how will a fire destroy a production facility, how that will effect customer base... and then what to do about it). The company has 1400 engineers worldwide. Daniel enjoys having a job that

cont'd

doesn't require him to sit in an office 8 hours a day – there is a lot of freedom and he maintains a home office and frequently travels for his work.

Class of 1997
Scott Denton has been promoted to Manager of Design Engineering at Applied Microcircuits Corporation in San Diego, CA. He manages a team of five senior engineers doing mixed-signal design. He and wife, Clarissa Reese Denton, live in Carlsbad, CA along with their Labrador, Bella.

Maureen Feiner Colucci
and her new son, future USD alum, John Paul

Maureen Feiner Colucci and husband, Paul Colucci (a USD alumnus), welcomed a baby boy into their family. John Paul Joseph Colucci (named after the pope) was born July 22, 2004 weighing 8 lbs, 9 oz and was 21" tall.

Thomas Mack is married to wife Kasy and has a 3-year-old son named Joey.

Mary Joy Sotic is living in San Diego with husband, Dennis, and daughter, Melissa. Joy is a senior software engineer at Cubic Corp in San Diego, CA.

Class of 1998
Vernon Bernard is the Engineering Manager for Paralan Corporation of San Diego and is one of the top four members of the company's management team. Paralan produces products that expand the use of Small Computer System Interface (SCSI); from conversion of one type implementation to another (e.g. LVD to HVD), and extending the bus-length through the use of fiber optics. Paralan was the first company in the world to have a fully functional fiber optic SCSI Bus Extender that works with any manufacturer's SCSI host adapter and SCSI peripherals.

Devin Volpe has a Design Verification Engineer at Sun Microsystems in Palo Alto, CA for two years. His major project is a multi-threaded processor. He lives in Mountain View, CA.

Class of 1999
Zaldy Valenzuela has decided to stay in the Navy. He is studying at the Naval Post Graduate School in Monterey, CA, and working towards his Masters degree in Electrical Engineering. He decided to stay in the Navy because they have given him the opportunity to be an Engineer. As soon as he graduates with his Masters, he will have a two year tour where he will be learning about the Navy shipyards and responsibilities. He hopes to eventually work for SPAWAR or in the US Navy R&D department where "all the cool new toys are being made and tested."

Class of 2000
Claudio Castanheira has been working as an engineer in Dallas, Texas since his company, Telena Communications, relocated there from San Diego last year. Telena Communications' focus is the design, development, and marketing of advanced networking products serving the communications industry. The company was founded in May 2000.

Sarah Chaney is an engineer with Integrated-Devices, LLC, a company that develops wireless broadband technology.

Thomas Guzman is stationed in Ingleside, TX on the U.S.S. Shrike a MHC (mine hunter). He is an operations officer. His wife, Mina, is finishing up her masters in history at USD. They live with Bailey and Whiskey, two miniature poodles.

cont'd

David Huang completed a Masters of Science degree in Electrical Engineering at the University of Florida in December 2003.

Soren Solari is currently pursuing graduate studies as a PhD student in the Mechanical and Aerospace department at UCSD. He is working in the study of control systems, optimization and control of deployable structures. He is hoping to direct his efforts to some of some problems that are bio-medically inspired or bio related, but most of the funding is for space programs, so he might be trying to see the parallels for use at a later date. He should be taking his qualifying exam this summer.

Ricardo Valerdi passed the qualifying exam his PhD in Systems Engineering at the University of Southern California. He and his fiancée, Briana Broadfoot, are celebrating their engagement and plan to marry next year at Founders Chapel at USD. They recently purchased a home in Venice, CA.

Class of 2001

Amanda Bishop continues to be an electrical engineer specializing in digital design at Northrop Grumman in San Diego. Earlier this year she finished her FPGA designs for Comanche, as they delivered their Integrated Radio System to the Army. She is now doing FPGA development for one of the other Integrated Radios (the F-35 Joint Strike Fighter). She also bought a house in Rancho Bernardo last February, and spends a lot of my free time bettering herself as a triathlete. She competed in her first one last May - the Carlsbad Triathlon.

Susannah Denton is finishing her Navy duty and is thrilled to have been accepted into the Masters of Science in Electrical Engineering at University of California, Irvine.

Gislene Douek is product manager for Time's "Mobile Desktop", a product that allows the user to synchronize with MS Outlook and access documents through a cellular phone. She is also Key Account Manager for Brazilian cellular provider Vivo. She has applied to the Masters of Science in Telecommunications program at Universidad de Sao Paulo in Brazil.

Mark Heffernan is at Northrop Grumman in San Diego and, as a member of the Global Hawk Payload Team, is responsible for the airborne flash recording devices. In November, he received a degree from Caltech for a Systems Engineering program which focused on Northrop's project management techniques. Some of his new technical responsibilities include becoming a guru on military imagery standards.

Sally Mahdvai Hormozan is a business manager and electrical engineer for SAIC in San Diego, CA. She hopes to earn her MBA from the new UCSD Rady School of Management beginning this fall.

Class of 2002

Travis Amrine is doing technical sales and engineering at Lighthorse Technologies, Inc, in San Diego. The company specializes in RF connectors and cable assemblies and serves the RF and microwave electronics industry.

Oscar Arzu is an engineer at Raytheon's Software Engineering Center in El Segundo, CA. He and fiancée, Lauren, plan to be married this fall.

John Duca is an engineer at Raytheon in El Segundo, CA. He will be attending Loyola Marymount University's Masters of Science in Electrical Engineering program this fall.

Ian Nauhaus lives in the Westwood community of Los Angeles. He is a graduate student in electrical engineering at UCLA.

Estrellina Pacis is enjoying her work at SPAWAR in Point Loma and working hard to balance life with her new career. She reports: "Things here are always busy; it's a good thing, as we're always receiving more projects to do. I've sort of been "thrown" into management of the project I first came on. It received a whole lot of money, so it couldn't just "manage itself", as it did in the past. So I'm learning a wide spectrum of skills...from technical to management…the good news is that I'm still

cont'd

excited to get up in the morning and come to work."

Matthew Peek is living in Irvine, CA and works as an on-site field technician, doing mainly calibration on all types of instruments for FLW in Costa Mesa, CA. He attended graduate school at CSU Fullerton studying applied mathematics. On June 5, he married Priscilla Van Gerwen at Founders Chapel at USD.

Pedro Usma is working at SAIC in San Diego, CA, on a project to upgrade the radar and communication systems throughout the US Air Force. He recently received a promotion to Engineering Designer. He is glad that he took his senior electives in wireless and RF because he uses those topics frequently on his projects. In other news, he has opened a Taekwondo-Hapkido-Kendo school that reaches over 170 students with approximately 20 Black Belt instructors. The daughters of Lorena Silvas, Department Executive Assistant, are active participants in his class.

Class of 2003

Sami Al-Saialy is a certification engineer for product compliance at Solar Turbines in San Diego, CA.

Melissa Glazebrook is an engineer at ViaSat, Inc. in Carlsbad, CA. She is working in the networking group on a defense department initiative, FAB-T, which will provide a multi-mission capable family of terminals that will use a common design and open system architecture to talk to different satellites. Terminals (or radio systems with special purpose antennas) enable information exchange between ground, airborne and space platforms. Once operational, the system will provide critical, protected beyond line-of-sight communications capability for warfighters via the new Advanced Extremely High Frequency (Advanced EHF) System, a new class of secure satellites that support military forces. Melissa's work is primarily with the board level design and testing.

Melanie Higa is an engineer at NAVAIR in Point Mugu, CA, where she reports she is the only "chick engineer" but is enjoying her work and the people she works with. NAVAIR is a leader in development and integration of tactical electronic combat systems for the protection of Navy and Marine Corps aircraft.

cont'd

Wesley Morgan is an engineer at Raytheon in El Segundo, CA. He is working in the Space and Airborne department. His work requires him to design test equipment that tests radar power supply modules. His son, Wesley, Jr., will be one year old this month.

Andrew Shelley is working for Sierra Cybernetics at Lockheed Martin in Kearny Mesa, CA. He is a Software Engineer on an integrated communications system (C4ISR). He finds the projects he is working on to be very exciting. Andrew also bought a new condo in City Heights.

Dalia Tawy is a a Certification Engineer for product compliance at Solar Turbines, Inc.

Rachel Tenwolde is now at L3 Communications in San Diego, Ca. She is a manufacturing engineer working to improve Kanbans and material flow.

Updates? Please send news and changes in contact information to USD Department of Engineering, usdengr@sandiego.edu

Calendar of Engineering Events

Interested members of the public and alumni are warmly invited to attend these upcoming events:

Thursday, October 28	Fall Engineering Convocation – Join current students and alumni for lunch and an interesting speaker
Friday, December 10	Fall Open House – See Design Projects and completed Senior Design
Thursday, April 14	Spring Engineering Convocation – Join current students and alumni for lunch and an interesting speaker
Saturday, April 23	14th Annual Walk on Water Competition

USD Department of Engineering
5998 Alcalá Park
San Diego, CA 92110