

# Darius P. Tarsio

www.dtarsio.com  
+1 (469) 464-9188  
CV@dtarsio.com

To Human Resource Management:

I received an MBA in international business from the University of Dallas and my Electrical Engineering degree from Ohio University. My past work experience consists of four general engineering areas. Electrical engineering, mechanical engineering, computer science and technical management.

My experience also consists of the following fields: Semiconductor designer and programmer, engineering consultant and contractor, technical staff, project manager, logistics manager, manufacturing, commercial construction, product development, software development and instructor teaching students engineering trades. I also have worked on international consulting projects in both Central and South America giving me the opportunity to live abroad and understand different engineering problems and cultural differences.

My background and skills are very strong in computer science, problem solving, renewable energy, engineering analysis and project management. I have worked with many successful teams as an engineer and I look forward to combining my technical and business management skills into your organization.

I would be delighted to make myself available for a personal interview at your convenience and would be glad to provide you with any additional information needed.

Sincerely,  
Darius P. Tarsio

# Darius P. Tarsio

**Address:** Magdalena, Lima, Peru  
**www.dtarsio.com • CV@dtarsio.com**  
**Work status:** American citizen expat living abroad  
**Phone:** +1 (469) 464-9188



## OBJECTIVE

To attain a position where I may utilize over ten years of experience and skills in engineering, computer science, business administration and construction. Provide excellent technical management, engineering consulting and contract services for hi-tech, government or financial organizations.

## PROFESSIONAL EXPERIENCE

### **DEXA RESOURCES LLC, Wichita Falls, TX**

**June 2015 - present**

*Operations Manager*  
www.dexaresources.com

Dexa Resources is a multi-disciplinary hi-tech engineering product and software development firm providing independent expertise in engineering, computer science and related areas to industries, governments, product developers and construction firms.

#### *Information Technology:*

- Computer science consultancy services
- Experience in more than 10 programming languages
- Utilizing multiple programming and operating system platforms
- Advanced Java, C++ development, Backend PHP applications
- Mobile application development; Microsoft software development
- “Internet of Things” - Integrating products with internet connectivity
- Microcontroller device integration such as Raspberry Pi and Arduino
- SSL integration server client encryption algorithms
- TCP/IP port and IDS server monitoring to identify and neutralize threats
- Port forwarding, tunneling, proxies sockets and DNS masking automated configurations
- IPV4 to IPV6 large scale migration planning and full scale execution
- DDOS monitoring and prevention services
- Node.js asynchronous event-driven I/O server-side JavaScript environment integration
- SOAP, REST and Cpanel API integration
- BI & Big data web development; Database development, maintenance and migration
- ERP / CRM implementation, setup and back end development
- Software integration & customization; Back end server administration
- Enterprise server automated access control; Security access control systems
- Magento and E-commerce platform integration and custom module creation
- Advanced web development, SEO and customized hosting
- Implementation of web crawlers and spiders to gather statistics

*Product Development Engineering:*

- Engineering contractor providing development engineering and contract manufacturing services
- Multi-discipline engineering services overseeing the conception and design of manufactured goods
- R&D; 3D Printing; Advanced 3D CAD and reverse engineering services
- Rapid prototyping; CNC machining; Injection molding design
- Metallurgy and materials science including working with plastics and exotic materials
- CAD and PCB modeling including library development
- Integration and programming of PLC – programmable logic controllers
- Development and management of manufacturing techniques and processes
- Staff augmentation and offshore outsourcing of manufactured goods
- Business process mapping; Facilities planning; Process outsourcing
- QA – Production and software quality assurance
- Technical product manuals and technical blogging

**HELIOS ELECTRIC LLC, Dallas, TX**

**September 2006 – June 2015**

*Operations Manager*

www.helioselectric.com

*Renewable Energy / Environmental Engineering:*

- Environmental consulting; Commercial & residential renewable energy engineering projects
- Mechanical engineering design; Electric vehicle parts & structural mounting devices for renewable energy projects
- Provided integration and electrical consulting services for grid and off grid connected power systems
- Solar and wind power installation; Renewable construction logistics management
- Renewable energy product development and manufacturing; Development of energy storage devices
- Engineering design and planning for utility connection

*Construction & Engineering:*

- Project budgeting, negotiation and quotation; Managing electrical construction and construction teams
- Commercial steel buildings construction
- Managing multiple construction crews to complete building erection
- Concrete foundation forming, rebar and pour
- Operation of heavy equipment and specialized tools such as backhoes, skytrak and scissor lifts
- Metallurgy and professional high precision machining; Structural welding
- Electrical, plumbing, waste and other utility design, management and installation
- 3D CAD design including moving assemblies and commercial construction layouts
- Teaching – hands on engineering trade courses, CAD design, product design and development, business engineering
- Single phase & Three Phase commercial electrical design and installation
- Building client relationships, building supplier relationships and improving logistics

**STAGEDELIGHTS LLC, Dallas, TX**

**July 2007 – July 2011**

*Technical Director*

- Corporate event planning
- Stage and lighting set up and teardown
- Operation and repair of high end stage equipment
- Intelligent lighting design
- Venues of 1000 and more

**LONE STAR PERCUSSION, Dallas, TX**

**June 2006 – July 2007**

*Web Ecommerce Developer / Systems Administrator / IT Consultant*

www.lonestarpercussion.com

- Website and database development

- E-commerce web and database development 10,000+ products
- Inventory migrations to a new online platform
- On site server administration
- Business process and logistics improvement

**SRI INTERNATIONAL, Princeton, NJ**

**June 2001 – November 2004**

*GEM - IC Emulation ASIC Design, Associate Member, Technical Staff*  
www.sri.com

- Coded Unix and PC tools, used in design flow, to increase speed and productivity
- CMOS logic schematic designs, burn-in designs, layout, and LVS checks for military parts
- Developed digital libraries from modeling through characterization
- Analyzed and modified modeling parameters to produce low error curves and accurate models
- Semiconductor laboratory layout, design, management and maintenance
- Set up and maintained circuit debugging laboratory equipment and PC hardware
- Set up equipment such as metal working machining and semiconductor test equipment
- Evaluated and installed various software packages for our design team
- Operated Nd:YAG lasers and aligned laser optics
- Etched glass with HF to prepare parts for probing
- Trained in industrial laser safety

**RADIO SHACK, Nanuet, NY and Nyack, NY**

**July 1998 - May 2001**

*Sales Associate / Assistant Manager*

- Provided service to retail customers regarding electronic equipment and components
- Participated in highly competitive commission based sales
- Supervised night staff of employees

**PROGRAMMING AND SOFTWARE**

3D CAD, Autodesk Inventor, SolidWorks, Mastercam CAD/CAM, G-Code, C++, Borland C++, C, HTML, GDB, XEMACS, PICO, VI, AWK, VHDL, TCL, WinTcl, Ample, Perl, Assembly, Visual Basic

Scripts for Unix and PC circuit design tools, ASP, PHP, SQL, Microsoft Access, All Microsoft Office Tools, Hspice, Cadkey, Matlab, Xilinx, CodeWarrior, Telnet, Ftp, .NET, C#, Node.js Frameworks, Internet Of Things Hardware & Software

Mentor Graphics Circuit Design and Simulation, Mentor Graphics Layout, Cell Library Builder, Aldec Simulation, Leonardo Synthesis, Jasc Paintshop Pro, ICCAP Transistor Modeling, All Microsoft Windows Versions and Platforms

Unix, Linux, MS-DOS, Mac OS, Palm OS Software and Tools, Several electric vehicle control system interfaces and coding, .NET Framework using VB, C#, MySQL and mssql database programming and management, Elation Compuware professional high end lighting design

**EDUCATION**

**Master's in Business Administration – International Business**

**April 2008**

**Satish & Yasmin Gupta College of Business**

*UNIVERSITY of DALLAS, Irving, TX*

*MBA Projects:*

- CAPM models, Ibbotson historical returns, WACC, CCC, and EVA calculations for company profile analysis
- University department business process mapping and business process improvement mapping

- Several creative management improvement techniques and leadership projects to maximize work flow
- Detailed financial ratio analysis and predictions for a company profile
- RFID detailed marketing plan with pricing, ROI, break even, and future product strategies
- Supply chain management and improvement techniques
- International business development and supply chain improvement
- Renewable energy systems research, design and installation
- International product advertising
- Product Import/Export and customs border control considerations
- International finance - arbitrage, speculation, etc.

**Bachelor's of Science – Electrical Engineering**  
**Russ College of Engineering and Technology**  
 Dean's List, Academic Achievement Award  
*OHIO UNIVERSITY, Athens, OH*

**March 2001**

*Senior Design Project:*

- Developed GPS navigation system for Palm Pilot
- Performed serial port coding in C using CodeWarrior

**Photovoltaic Systems – Installation and Maintenance**  
*FARMINGDALE UNIVERSITY, Farmingdale, NY*

**February 2006**

- Intensive study of photovoltaic system design, maintenance, and safety
- Sizing up photovoltaic systems depending on load, amount of sun, and detailed solar cell specifications
- Backup battery design and maintenance
- Hands on installation of solar arrays, inverters, and back feeds
- OSHA, NEC code requirements and interconnection requirements
- Proper use of roof safety devices, data loggers and sun finders
- Provide educational solar/wind power seminars for the public

## **ORGANIZATIONS**

- Institute of Electrical and Electronics Engineers (IEEE)
- American Radio Relay League (ARRL)
- Crossmen Drum and Bugle Corps, Raiders Drum and Bugle Corps, Frontier Drum and Bugle Corps
- Ohio University Chamber Ensemble
- Ohio University Orchestra, New York State All-State Orchestra

## **INTERESTS**

Computer hardware, automotive and home repair, model aircraft, amateur radio (KC8PMK), bodybuilding, karate, photography, softball, mountain biking, snowboarding, billiards, deep-sea fishing, paintball, violin, percussion, camping, golf, solar energy systems, renewable energy systems, stage lighting, traveling, enjoy welding, fabrication and mentoring students, Austrian economics