

From: DMMD ® - Digital Multi-Media Design, LLC
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Dear Potential Customer,

DMMD seeks to collaborate with your business to innovate new solutions to difficult software and hardware engineering problems. DMMD wants to work with your company. Attached to this letter you will find DMMD's resume and a detailed description of our company's technical background.

DMMD has a wide range of experience in software programming, hardware development, system integration, networking, database design, back end web development, and in signal and image processing in 1D, 2D and 3D. We are best at system integration problems that require knowledge of hardware, software, networking and database design.

DMMD's team members have worked with, developed and integrated systems that incorporate LIDARs (laser imaging detection and ranging), analog to digital converters, a multitude of different types of digital video, still cameras, stereo cameras, GPS (global positioning systems) and INS (inertial navigational systems), real-time data acquisition and processing systems, large scale databases, medical websites and networking. Our work in these areas is backed by several US patents and DMMD has licensed some of these patents to large, publicly traded companies, such as Logitech, Pictometry and others.

DMMD's team members have published in reputable IEEE journals and conferences, such as: the IEEE Journal on Signal Processing; the IEEE Journal on Image Processing; the IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP); and the IEEE International Conference on Image Processing (ICIP).

Finally, DMMD has developed several commercial strength applications, including: Visere – a multi-platform (Windows, Mac, and Linux), freeware, image viewer, data acquisition and image processing application; WhiteCap – the main X-Ray capturing, processing and viewing software for SimonDR.com's FDA (Food and Drug Administration) approved X-Ray systems; the eVet Viewer – a customized imaging viewer for EvetDiagnostics.com; Exuo – a medical imaging PACS database; StarryNight – a 360 degree capturing software; and Vincent – a 3D data capturing, processing and registration software; and EvetDiagnostics.com – a medical image database website.

To provide you with a more detailed description of our team's achievements and strengths, attached you will find DMMD's resume. DMMD has worked with several small and large companies and it is eager to work with your company.

We look forward to hearing from you. If you have any questions, please don't hesitate to contact us via email (darian@dmmd.net) or cell (703.439.0067). You may also visit DMMD's website at <http://dmmd.net> for a complete description of DMMD, our products and our customers.

Sincerely yours,



President of DMMD
D. Darian Muresan, Ph.D.
February 18th, 2014

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Academic Experience

Members of DMMD's team hold Masters and PhD degrees in Electrical and Computer Engineering, Mathematics and Computer Science from well established American and European Universities, such as: University of Washington in Seattle and Cornell University in Ithaca, NY.

Projects

Here is a subset of a long list of DMMD developed software projects:

DMMD Algorithms (DMA): an advanced 2D/3D, multi-threaded image processing library.

The DMA Image Processing Library is a simple, yet powerful library that integrates state of the art and DMMD's patented image processing algorithms. More details about DMA are available at: http://dmmd.net/main_wp/algorithms/

Structura: an Android based 3D scanning system using a PrimeSense camera to capture 3D scans and leveraging the DMA Algorithms library to merge together the scans into one complete 3D object.

Shutter Stream: a cross-platform, 2D image viewing, capturing and processing system developed for Iconasys.com. Shutter Stream Product Photography Software allows users to control camera settings and hardware functions via mouse clicks through USB communication. Incorporated inside the program is an Image Editing & Processing suite that provides users the ability to Batch Edit, Process, and Output high quality product images in seconds.

3D Scan Capture, Distribution and Analysis System: a cross-platform, distributed computing system used for capturing and analyzing 3D scans in real-time. The DMMD developed capture, distribution and processing system provides instant access to scanned 3D data, enabling efficient management and processing of 3D captured data for a variety of applications such as: remote scanning of buildings, security, veterinarian, farming, volumetric measurements, preventive maintenance, and many more. The developed system captures information from each scan automatically, 24 hours a day, 7 days a week. The software runs on distributed ARM processors and sends the data wirelessly to multiple data processing servers.

Podium Image Editor: a cross-platform image editing software product for CAD applications that DMMD developed for Cadalog.com. This image editing application is a fully fledged image editor that allows users to easily edit their CAD generated image products to generate photo-realistic results.

Visere: an advanced, cross-platform, multi-dimensional image viewing and processing system. Visere is the flagship product of DMMD and it is one of the core components of DMMD's technologies. Visere 6 is available as a cross-platform product for Linux, Mac and Windows. Visere 6 is based on two executables, three dynamic libraries modules, and an unlimited number of plug-ins, making it an extremely flexible platform for developing multi-dimensional (1D, 2D, and 3D) data viewing and processing applications. More details about Visere are available at: http://dmmd.net/main_wp/products/visere/

WhiteCap: an FDA approved, X-Ray acquisition system developed for SimonDR.com. WhiteCap is the software that drives SimonDR's Veterinary and Podiatry X-Ray systems. It is a fully featured, nothing-left-out acquisition and viewing software. It can take the place of a PACS system, saving thousands of dollars. WhiteCap is a customized version of DMMD's Visere system. More information is available at: http://dmmd.net/main_wp/white-cap/

Photoshop Host SDK: a Photoshop host and SDK that allows running Photoshop Plug-ins. DMMD has developed a Photoshop Host and a simple and clear to use Photoshop Host SDK. The Photoshop Host allows your application to run any Photoshop filter, 32 or 64 bits, thus turning your own application into a mini-Photoshop. For example, you can apply Photoshop filters directly on your own website. More information is available at: http://dmmd.net/main_wp/photoshop/

eVetDiagnostics: a DICOM/PACS database and radiography evaluation website. In coordination with Veterinary Multi-Imaging, DMMD has designed, implemented and currently maintains the eVetDiagnostics website. This is a site used by veterinarian doctors to evaluate radiographs. Customers submit radiographs to eVetDiagnostics and a team of veterinarian experts provide written evaluations. The website makes use of several different technologies, including: Joomla, .NET, and C/C++. The website is: <http://www.evetdiagnostics.com>

Vincent: a 3D capturing and registration system developed for VanGoghImaging.com. Until now, 3D image processing has been a cumbersome process requiring the manual “stitching” together of tens of scans. Vincent is an auto-registration technology which completely automates this process. Vincent can be configured to work with most 3D scanners on the market today. More information is available at: http://dmmd.net/main_wp/vincent/

Exuo: a PACS, medical imaging database system. Exuo is DMMD’s imaging database system. It can be integrated directly into a website to provide web access to images, or it can be accessed via Visere, which acts as a PACS client. Access via Visere provides a richer viewing experience as well as the ability to use a wide variety of imaging filters and annotations that are available in Visere. More details are available at: http://dmmd.net/main_wp/products/exuo/

Software, Hardware and Areas of Expertise

OS, Software Tools, and Network Protocols:

DMMD has expertise with the following software platforms: C/C++, UNIX, LINUX, Microsoft Windows, Matlab (+Mex files), PSPICE, Verilog, C#, MASM (assembly language), HTML, HTTP, CGI, TCP/IP, PHP, AJAX, .NET, OpenGL, DirectX, CUDA, SQL, DICOM, C++ libraries (Win32/64 API and Qt), DCMTK, GDAL, VTK, a multitude of SDKs (Adobe SDK, Canon SDK, etc.), and others.

Hardware:

Intermediate to advanced working knowledge of: Altera, ACTEL, and Xilinx FPGA chips and their corresponding hardware development tools. Advanced knowledge of interfacing to IBM personal computers and a working knowledge of Intel, Motorola, and TI DSP processors. Also intermediate to expert knowledge of A/D, D/A, and PLL designs.

Areas of Expertise:

Wavelets, Fourier Transforms, Advanced Linear Algebra, Linear Subspace Decomposition, Least Squares, Statistical Signal Processing, Image Processing, Filter Design, Databases, Networking Interfaces and others.

Clients

DMMD developed and develops software customization solutions, licenses patents, provides consulting, and software programming outsourcing to third party customers such as:

- LifeSize <http://www.lifesize.com>
- Pictometry <http://www.pictometry.com>
- SAIC <http://www.saic.com>
- SimonDr <http://www.simondr.com>
- eVet Diagnostics <http://www.evetdiagnostics.com>
- Van Gogh Imaging <http://www.VanGoghImaging.com>
- Pixido Imaging <http://www.pixido.com>
- Prairie Seating Corporation <http://www.prairieseating.com>
- And others

References

“DMMD provided a great technology to kick-start our development. Since then, we have been very happy with their commitment to provide excellent feature enhancements and support. They have outstanding software engineers who are well disciplined, follow good engineering practices, and are very responsive to our needs. I would recommend them to any company looking for good software resources.” -- Young Kim Chief Technology Officer at Pixido, Inc.

“Folks at DMMD have done a great job of making complicated software simple, customized, and reasonably priced. Their responsiveness is incredible. There is a customer service attitude throughout DMMD that is genuinely hard to find.” -- Jason Simon, President at SimonDR, Inc.

“We have been using DMMD’s software service for the last two years and it’s been a wonderful experience. They provide an excellent technology at an affordable price. They are also very responsible and reliable. Most importantly, their technical skill is as good as I have worked with in my thirty years in the technology business. These guys can pretty much execute anything related to software. I highly recommend them to anyone that is planning on a challenging software project.” -- Ken Lee, President at VanGogh Imaging, Inc.

“DMMD has provided timely, cost-effective programming that has allowed my company to prosper. I characterize the DMMD “team” as anxious to please, reliable and with high credibility.” -- Victor Rendano VMD, MSc, DACVR, DACVR-RO, President eVetDiagnostics.