

SOFTWARE + SOLUTIONS

Software Development

Our software development teams focus on providing clients with better solutions using creative thinking, automation, and the latest technology. Depending on project needs, we may build complex applications and infrastructure from the ground up, or we may improve existing systems. Our work involves collaboration among developers, engineers, and artists, incorporating a variety of skill sets, including:



CAE AND SIMULATION APPLICATIONS

Create desktop applications, scripts, and server-side code to automate and support finite element analysis (FEA) simulations, CAD, data management systems, and other computer-aided engineering (CAE) tools.



MOBILE AND WEB DEVELOPMENT

Build full-stack web applications, mobile apps for iOS and Android, and other interactives, with a focus on marketing, database-driven tools, and augmented reality (AR).



MACHINE LEARNING AND TRAINING DATA

Develop data-driven algorithms, engineer large datasets comprised of natural and synthetic data, and deploy intelligent models capable of machine perception and predictive analytics.



REAL-TIME SIMULATION AND VIRTUAL REALITY

Use game engines and the latest VR hardware to create interactive, real-time simulations to evaluate architecture, manufacturing, products, medical procedures and more.



DEVELOPMENT OPERATIONS

Coordinate developers, manage software testing and quality assurance, deploy releases, support clients and users, and keep our projects running smoothly.

Skill Sets

CAE and Simulation Applications
Mobile Apps
Web Development
Imaging and Spatial Data Analysis
Real-Time Simulation and
Virtual Reality Development
Operations

Fields

Computer Science
Computer Engineering
Information Technology
Other Related Fields

Requirements

3.0 GPA or Higher

Tools

C / C++ / C#
Git
Javascript / HTML / CSS
Python
Swift
Unity
Unreal Engine

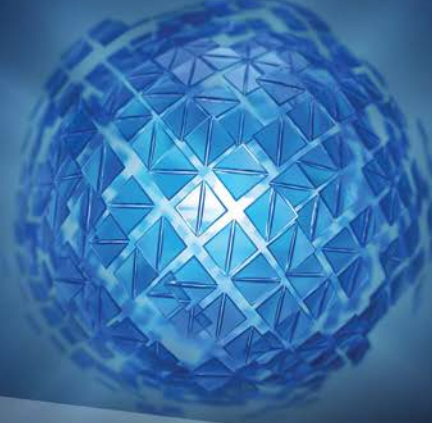
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CREATIVE + VISUALIZATION



Graphic and Digital Design

We challenge the ordinary, make the complex simple and beautiful, and always try to create work that is inspirational. We are visual thinkers that deconstruct problems, build structures, and create narratives that powerfully convey brand messages, products, or services. You'll be exposed to and work in a number of areas:



TECHNICAL VISUALIZATIONS

Communicate intricate technological stories in compelling ways. We work on a wide variety of projects, from complex consumer products, to medical technology; from electronics to architecture.



MOBILE AND WEB DESIGN

Develop UX/UI designs that maximizes user interaction through visually appealing layouts, organized information, and easy-to-use elements sized for major screens or browsers.



VIDEO EDITING AND MOTION GRAPHICS

Combine HD and 4K video, 3D/2D animation, images, graphics, and special effects using advanced editing software to build powerful content and complete presentations.



VIRTUAL REALITY AND INTERACTIVE DESIGN

Bring complex designs to life in an immersive 3D environment to help clients evaluate the success of their products, or train and educate their audiences.



SALES AND MARKETING COLLATERAL

Build effective products and campaigns to communicate key messages to target audiences, including printed materials, tradeshow exhibits, broadcast media, and digital presentations.

Skill Sets

- Proficient in 3D Software
- Understands Light and Form
- Demonstrates Design Fundamentals
- Familiar with Latest Trends
- Collaborates with Others
- Ability to Solve Problems
- Attention to Detail

Fields

- 3D Animation and VFX
- Communication Design
- Industrial Design
- Fine Arts Graphic Design
- Other Related Fields

Requirements

- 3.0 GPA or Higher

Tools

- Adobe Creative Suite
- 3D Studio Max
- Maya
- ZBrush
- Keyshot
- Unity
- Microsoft Office

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MANAGEMENT + OPERATIONS



Management and Operations

Our Management and Operations team is focused on creating scalable processes, integrating management software systems, and driving excellence in operating efficiencies. The ideal candidate would thrive in a technical environment and would use their business mind to help our design, engineering, imaging, creative, and software development teams move forward in areas such as:



TECHNICAL PROJECT MANAGEMENT

Assist with project management by tracking hours, costs, and other critical data. This includes working with our financial and project management systems, exploring new methodologies for efficiency, and providing analysis and reporting for division leads and management. Assignments can also span into technical projects such as Reverse Engineering and Inspection Services.



MANAGEMENT ANALYSIS AND REPORTING

Utilize critical thinking and analysis skills to assist management in making informed decisions. Assignments can include working with large sets of data, using 3D Space and Visualization programs, tracking statistics ranging from web analytics to employee data, and managing facilities using IoT devices.



OPERATIONS

Contributes to helping the company run efficiently by assisting with general office operational needs and helping to develop and maintain the company intranet site. From trade show support, to facility design, to event support, the Operations team is highly connected across all of the company's divisions, providing an exceptional opportunity to connect with key stakeholders from each discipline.

Skill Sets

Technical Project Management
Analysis and Reporting
Operations

Fields

Industrial Management
Operations Management
Engineering
Accounting
Other Related Fields

Requirements

3.0 GPA or Higher

Tools

Collaboration Platforms
CRM Tools
Project Management Software
Financial Systems
Issue Management
Resource Planning
MS Office and Google Suite

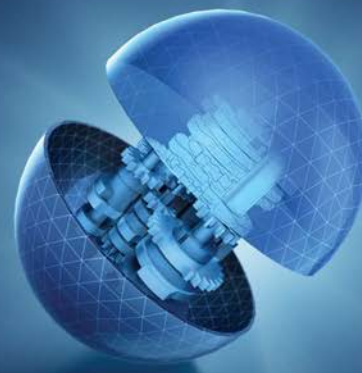
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PRODUCT DESIGN + DEVELOPMENT



Product Engineering and Quality

Kinetic Vision provides advanced product development and design services to companies in the medical, automotive, consumer products, and aerospace industries. Using an integrated approach to product development enables us to simultaneously design, engineer, and market new products, resulting in shorter time-to-market, higher quality, and cost savings. Skill sets include:



PRODUCT DESIGN AND DEVELOPMENT

Use advanced 3D CAD modeling software and rapid prototyping equipment in the design, development, and testing of new products and manufacturing equipment.



MODELING AND SIMULATION

Simulate, test, optimize, and redesign products and processes across a wide spectrum of physical problems using advanced engineering techniques such as FEA, CFD, and custom automation.



REVERSE ENGINEERING AND INSPECTION SERVICES

Work with data collected from various 3D non-destructive modalities, including industrial Computed Tomography, to inspect and troubleshoot products from a broad set of industries.



IMAGE AND SPATIAL DATA ANALYSIS

Manipulate, analyze, and visualize large 2D or 3D datasets such as those obtained from industrial CT scans, medical imaging, photogrammetry, and other inspection modalities.

Skill Sets

Product Design and Development
FEA Analysis and Optimization
Reverse Engineering and Inspection

Fields

Mechanical Engineering
Aerospace Engineering
Biomedical Engineering
Other Related Fields

Requirements

3.0 GPA or Higher

Tools

ANSYS
ABAQUS
CATIA
Geomagic
HyperWorks
LS-DYNA
SOLIDWORKS
Power BI

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PRODUCT DESIGN + DEVELOPMENT



Embedded Development

The Kinetic Vision embedded development team focuses on providing clients with better solutions using creative thinking, rapid iteration, and the latest technology. Collaboration with other teams allow us to design and build entire products completely in-house. Solutions range from integrating off-the-shelf components to designing custom systems from the ground up utilizing the following disciplines:



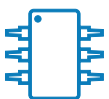
FIRMWARE DEVELOPMENT

Write code for embedded systems using a variety of microcontrollers and embedded Linux platforms to interface with a variety of sensors and electromechanical systems.



CIRCUIT DESIGN

Prototype and manufacture custom circuits to accelerate the development and testing of electromechanical systems. Design, simulate, and test analog and digital circuits to optimize for power, cost, and size constraints.



ELECTROMECHANICAL SYSTEMS

Design, develop, and build automated systems for research and manufacturing applications. Solutions involve integrating a variety of disciplines including hardware design, firmware development, desktop development, and industrial design.



IOT AND DISTRIBUTED SENSING

Leverage the Internet of Things (IoT) to acquire data from across the globe, analyze these distributed inputs, and keep systems running efficiently and smoothly. Integrate IoT technologies such as Bluetooth, WiFi, and LoRa into new and existing products.

Skill Sets

Firmware Development
Embedded Linux
Circuit Design and Prototyping
PCB Layout

Fields

Electrical Engineering
Computer Engineering
Mechanical Engineering
Other Related Fields

Requirements

3.0 GPA or Higher

Tools

C / C++
eCAD (Altium / Eagle)
3D CAD (Solidworks / NX)
Source Control (Git / SVN)
Wiring and Soldering
Test and Measurement Equipment
Mixed Signal Simulation
(SPICE / Multisim)

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INNOVATION + INDUSTRIAL DESIGN



Industrial Design

Our Industrial Design team is composed of great problem solvers who can synthesize human experiences to generate products that improve consumer value through superior interaction and visual aesthetics. We utilize our internal resources such as engineering, CAD programs, model shop, software development, and more to help us drive innovation in the following types of project work:



BIOMEDICAL

Redefine functional form and user ergonomics to develop more efficient solutions within handheld and non-handheld instrumentation. We work in many materials and processes that drive change and impact lives.



CONSUMER PRODUCTS

Consumer products is a broad category and we work on products from simple bottles to electronics, from pet items to sporting goods. They all require research in cultural trends, color and finish.



INDUSTRIAL PRODUCTS

We bring life to commercial and industrial products that exist in rugged environments and conditions. Our focus is to improve functional process and durability through design while incorporating understanding of outside influences.



INNOVATION

Our team constantly collaborates through strategic innovation using a blended team approach. We are looking for creative problem solvers with a history of redefining problems through unique points-of-view.

Skill Sets

Innovative Problem Solving
Strong Sketching Ability
3D CAD Proficiency
Thrive in Collaboration

Fields

Industrial Design

Requirements

3.0 GPA or Higher

Tools

Adobe Creative Suite
Solidworks
Keyshot
Microsoft Office

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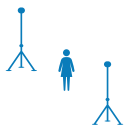
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VIRTUAL + AUGMENTED REALITY



Virtual and Augmented Reality

VR and AR require a unique blend of visualization and software development skills. Whether we're creating photorealistic VR experiences for the latest head-mounted displays or mobile AR apps to be released to the general public, we carefully craft XR experiences to enable visualization, design, engineering, and training. Our projects involve:



MOTION TRACKING

Integrate hardware and software to provide unique functionality for virtual or mixed use cases. Use motion tracking and depth sensing technologies to capture user and environment data.



3D MODELS AND ART

Create optimized, high quality assets, materials, and shaders for immersive VR and convincing AR.



UI / UX DESIGN

Craft and test intuitive interactions and interfaces to enable new ways for computers to train users and users to train computers.



PHYSICS AND REAL-TIME SIMULATION

Leverage GPU advances to apply the speed and performance of game engine physics simulations to real world problems.



DATA VISUALIZATION

Bring this data to life, from CAD to volumetric point clouds, with interactive experiences, or simply display it with that extra level of polish.

Skill Sets

3D Modeling and Materials
Animation
Game Development
Mobile Development
UI / UX Design

Fields

3D Animation and VFX
Computer Engineering
Computer Science
Game Design
Graphic Design
Interactive Design

Requirements

3.0 GPA or Higher

Tools

3ds Max / Maya
ARCore / ARKit
C++ and C#
HTC Vive / Oculus Rift
OpenGL / WebGL
Substance Painter
Swift
Unity
Unreal Engine
NVIDIA APIs

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INFORMATION + TECHNOLOGY

Information Technology

Our Information Technology team architects, secures, configures, and maintains all computing technology used by the company. Our current initiatives include:



VIRTUALIZATION

Use Hyper-V, VMware, VirtualBox, Vagrant, and other virtualization technologies across a variety of use cases.



NETWORK MONITORING AND DESIGN

Plan, configure, document, and optimize our 10Gb/s network and use the latest networking technologies.



DESKTOP SUPPORT

Front-line support for our tech-savvy end users and their dynamic computing environments.



SERVER ADMINISTRATION

Administer and monitor our growing data center, including thousands of cores and hundreds of CPU and GPU compute nodes.



CLOUD

Implement the latest in cloud technology, including virtual networking components, load balancers, compute instances, storage technologies, archival products, PaaS, and more.

Skill Sets

Networking
Cybersecurity
DevOps
Hardware Support

Fields

Information Technology
Information Systems

Requirements

3.0 GPA or Higher

Tools

Windows Server
Active Directory
SCCM
NAS Management
Virtualization
WireShark
AWS / Azure
Group Policy
VDI / Thin Clients
Enterprise Storage
Asset Management

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