

Furniture Designer

Description

Furniture designers are responsible for designing and creating different types of furniture from a basic concept or idea. ... These creatives can either produce designs for commercial furniture manufacturers or work with individuals to create custom pieces that often emphasize form over function.



KEY COMPETENCIES

1. Enjoy practical and manual activities.
2. Able to follow written instructions.
3. Able to work to a high level of accuracy.
4. Able to make mathematical calculations.
5. Good communication skills.
6. Good hand-eye coordination.
7. Creative and practical ability.
8. Drawing skills and strong visual awareness.
9. Manual dexterity and good hand-eye coordination.
10. An understanding of computer-aided design (CAD) and other technological advances.
11. Knowledge of industrial processes and techniques, safety issues and specialist fields or materials.

WORK ENVIRONMENT

Work environment for furniture designers is variable according to who they work with and the type of work they perform. If a designer is self-employed, they may spend a lot of their time working in an office on a computer where they will draw up design sketches and blueprints.

EDUCATION & TRAINING

Aspiring furniture designers should consider a bachelor's degree in engineering, architecture or furniture design. Programs in industrial or commercial design are also available, and some furniture designers hold master's degrees in the field.

JOB OUTLOOK

Employment outlook is not expected to increase or decrease over the next several years. Many furniture designers are part of the baby boomer generation and are looking to retire, so there may be a need to replace designers in these instances.

Furniture Designer

Design & Development
Engineer

Ergonomist



Furniture Designer

Upholsterer



Furniture Maker



Career Development Services Unit
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Product Manager

Description

The product manager is responsible for both product planning and product marketing. This includes managing the product throughout the Product Lifecycle, gathering and prioritizing product and customer requirements, defining the product vision, and working closely with engineering, to deliver winning products.



KEY COMPETENCIES

1. Conduct effective customer/user interviews.
2. Build revenue, pricing, and adoption models.
3. Experiment design and analysis.
4. Effective meeting design and facilitation.
5. Mapping and understanding complex competitive, partner, and customer ecosystems.
6. Communication Skills
7. Time Management

WORK ENVIRONMENT

Product managers spend the majority of their time working in an office and may be part of a small team or work in a large multi-national company, depending on their industry and company size.

EDUCATION & TRAINING

The education level required to apply for many product manager positions is a bachelor's degree in business or a related field. Product manager degrees should include coursework in communications, marketing, economics, public relations, statistics, advertising and management.

JOB OUTLOOK

Employment of industrial production managers is projected to grow 1 percent from 2019 to 2029, slower than the average for all occupations. Most of these managers are employed in various manufacturing industries, and may experience growth or decline along with the industries in which they are employed.

Production Manager

Chief Production Officer

Vice President of Production

Director of Production

Senior Production Manager

Production Manager

Associate Production Manager

Production Supervisor

Production Worker



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Artificial Intelligence (AI) Engineer

Description

Artificial intelligence engineers are responsible for developing, programming and training the complex networks of algorithms that make up AI so that they can function like a human brain. This role requires combined expertise in software development, programming, data science and data engineering.



KEY COMPETENCIES

1. Programming Skills
2. Linear Algebra, Probability, and Statistics
3. Spark and Big Data Technologies
4. Algorithms and Frameworks
5. Communication and Problem-solving Skills.

WORK ENVIRONMENT

AI engineers build, maintain and deploy AI-based systems. They work with businesses and tech companies to help them improve operations, product or software development, and service delivery, among others.

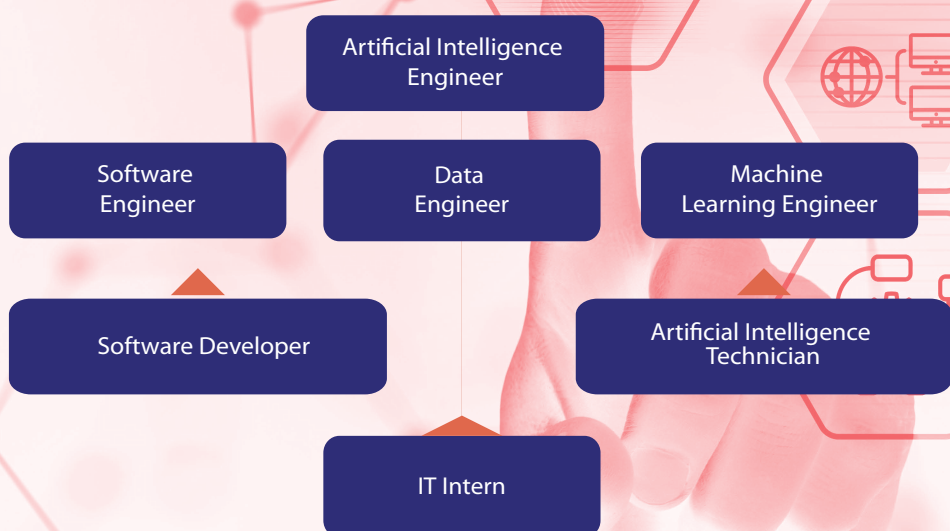
EDUCATION & TRAINING

At least a bachelor's degree in computer science, data science, engineering, physics, mathematics, statistics or another quantitative subject is generally required. Certifications in AI or data science may also help you meet educational requirements and gain technical knowledge.

JOB OUTLOOK

Bureau of Labour Statistics (BLS) statistics show that there are about 31,700 jobs in computer and information science. This includes artificial intelligence specialist jobs. By 2028, the BLS expects this number to grow to about 37,000 jobs, for an increase of about 5,300 jobs.

Artificial Intelligence Engineer



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Flight Engineering

Description

As a flight engineer, it is your job to monitor an airplane's instrument systems during flight. Your main duties are to regulate cabin pressure, communicate with dispatchers, oversee fuel use, and assist the pilot.



KEY COMPETENCIES

1. Strong mathematical, analytical and problem solving skills
2. Technical expertise
3. Creativity and innovative thinking
4. Attention to detail
5. A strong awareness of safety issues
6. Communication skills, both verbal and written
7. Project and time management skills

WORK ENVIRONMENT

Flight engineers, like others in the airline industry, have irregular schedules. Employment is steady, but they must fly on late-night, cross-country, and international flights quite often. They are away from home much of the time.

EDUCATION & TRAINING

To become a flight engineer, you need a flight engineer (FE) license from the Aviation Administration as well as a pilot's license. Additional qualifications include at least 1,500 hours of flying experience, strong leadership skills, and at least a bachelor's degree in aviation.

JOB OUTLOOK

The Bureau of Labour Statistics (BLS) estimates that jobs for airline pilots, co-pilots and flight engineers will grow by 3% between 2019 and 2029, about as fast as the average for all jobs.

FLIGHT ENGINEER

Flight Test Engineer

Flight Engineer

Flight Operations Engineer

Flight Data Analyst

Flight Analyst

Flight Test Technician



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Project Manager

Description

A project manager is responsible for planning and overseeing projects within an organisation, from the initial ideation through to completion. They coordinate people and processes to deliver projects on time, within budget and with the desired outcomes aligned to objectives.



KEY COMPETENCIES

1. Execution
2. Decision Making
3. Communications
4. Strategy Development
5. Team Management
6. Business Acumen
7. Technical Competence
8. Critical Thinking

WORK ENVIRONMENT

Project managers typically work in an office environment, though they may occasionally need to be present at the project's physical worksite. They spend much of their time sitting or standing at a computer station, typing correspondence, using project management software and placing business calls.

EDUCATION & TRAINING

Most project management roles require a bachelor's degree or higher. You can start your project management career with a degree in business management, but some universities also offer specialized programs in project management.

JOB OUTLOOK

For project managers with construction experience, the sector is predicted to grow 4.7 percent annually between 2021 and 2024.

Project Manager

Vice President of Projects

Director of Project Management

Senior Project Manager

Project Manager

Assistant Project Manager

Project Coordinator

Project Coordinator Assistant



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Full Stack Engineer/ Web Developer



Description

Full stack engineers work with a range of technologies and languages such as JavaScript, Hypertext Mark-up Language (HTML), and Structured Query Language (SQL) to develop applications that cater to both user experience and functionality. In other words, they are multitasking programmers who can handle the complete implementation of a website or application.

KEY COMPETENCIES

1. Problem solving
2. Patience
3. Attention to detail
4. Creativity
5. Communication
6. Tech savvy

WORK ENVIRONMENT

A full stack developer may work full or part-time in an office setting, or may choose to conduct business at home. Travel may be involved if one chooses to freelance.

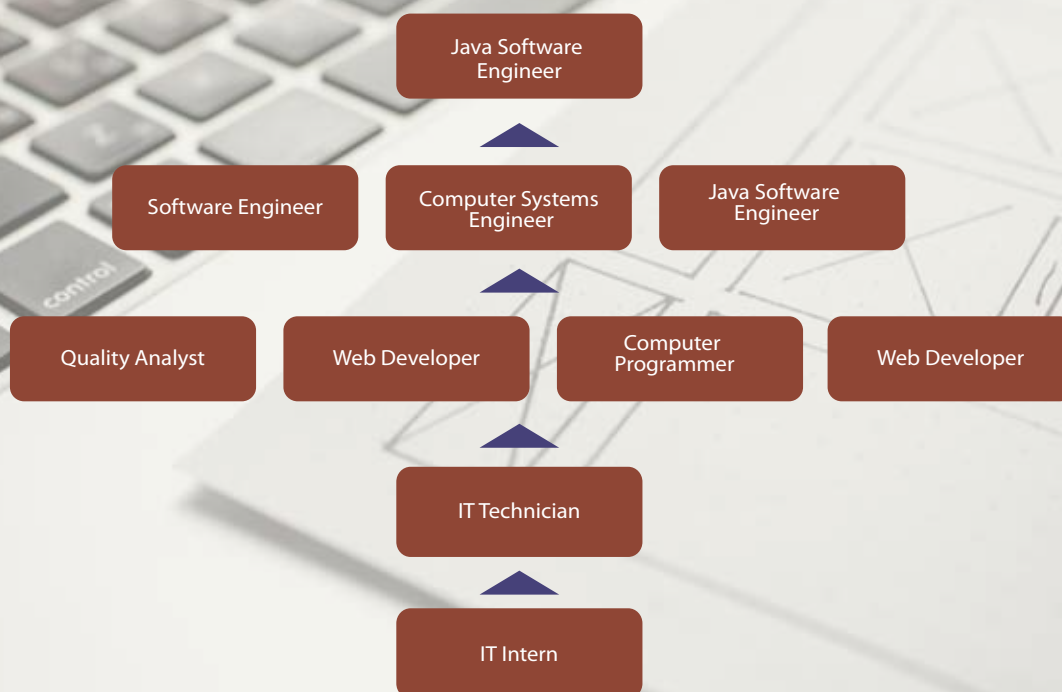
EDUCATION & TRAINING

Bachelor's Degree in Computer Science. Fluent in CSS (Foundation or Bootstrap), JavaScript and HTML, with an understanding of CSS pre-processors including Sass and LESS. Strong knowledge of Linux, PHP and MySQL, with working understanding of MongoDB, PostgreSQL, AngularJS, Express. Js, Oracle, React, Ember and Node.

JOB OUTLOOK

According to Bureau of Labour Statistics data, the role of "web developer" is expected to grow 13 percent from 2018–2028, much faster than the average occupation. In addition, in LinkedIn's 2020 Emerging Jobs Report, "full-stack engineer" is number 4 on their list of top emerging jobs for 2020.

Full Stack Engineer/Web Developer



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