

Electrical Engineer

An Electrical Engineer is responsible for utilizing sophisticated technology to service, install, repair, and design electrical systems.







career

Name: Thomas Heathman

Job Title: Electrical Engineer

Employer: Anderson Electric Corporation

Education: BS, University of Illinois: Champaign-Urbana

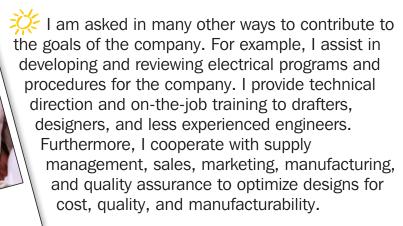
I have always liked solving problems and building things out of Legos®. I guess that sparked my interest in engineering. It didn't hurt that my best subjects in school were math and science. I majored in electrical engineering in college and had a job lined up before I

graduated.

I perform a number of different tasks in my current position. I'm responsible for preparing electrical drawings, specifications, calculations, charts, and graphs. I determine cost estimates and manpower requirements for proposals. I oversee the installation, maintenance, and repair of new and existing electrical systems. I make sure electrical systems meet design specifications. I use computers and other

technologies to create and test electrical equipment. I also

ensure that our work is in compliance with local, state, and national electrical codes.



I really enjoy what I do. In addition to finding my job challenging, I take pride in knowing that I'm competent.

Electrical Engineer

overview

suggested high school courses



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agricultural mechanics, physical science, and mathematics

experience needed



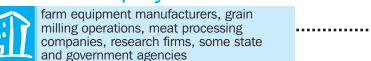
Participate in a school-sponsored competition related to engineering. Plan and implement a related Supervised Agricultural Experience (SAE) Program.

degree(s) required



A bachelor's degree in electrical, industrial, mechanical, or agricultural engineering is required. An MS degree in an engineering or scientific discipline provides opportunity for further advancement.

potential employers



salary range



\$51,875 to \$102,616

employment outlook and trends



The future outlook for electrical engineers is projected to be good to excellent depending on skills, specialties, and location.

professional organizations



Farm Equipment Manufacturers Association www.farmequip.org/ Institute of Electrical and Electronics Engineers www.ieee.org/index.html National Society of Professional Engineers www.nspe.org/index.html

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