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by creating and improving devices and programs these technology professionals help keep the world working safer smarter and faster computer engineers work in many industries including healthcare robotics cybersecurity and artificial intelligence learn what computer engineering is how it differs from computer science and what skills and specializations are in demand find out how to become a computer engineer with online courses certificates and degrees from coursera computer engineering coe or cpe is a branch of computer science and electronic engineering that integrates several fields of computer science and electronic engineering required to develop computer hardware and software are you deciding whether to major in computer science or an engineering field if so it s important to understand how the disciplines differ a computer engineer specializes in the design development and maintenance of computer systems and networks these engineers work at the intersection of electrical engineering and computer science applying principles from both disciplines to create and enhance computer hardware and software while computer science and computer engineering sound similar and some duties and responsibilities may only overlap there is a key difference computer science focuses primarily on computer theory and software while computer engineering focuses on computer design and hardware a computer engineering major studies hardware software and the principles of computing and electrical engineering students examine the role of engineering in society and tackle topics ranging for future software developers software engineers or programmers a graduate degree in computer engineering combines training in electrical engineering and computer science these are the computer science vs computer engineering roles and responsibilities one strategy for determining which path is right for you is to consider your career goals for instance if you are looking to work in cybersecurity or as a systems administrator computer science may be a good fit for you computer engineering bridges the divide between hardware and software while computer scientists tend to focus on the theory of computer systems including software and programming computer engineers understand computer systems in their entirety the master s program in computer engineering gets you there by teaching you the principles underlying the design and integration of computer components and systems we make sure you have a base from which to launch improvements in the field computer engineering is an evolving and fast paced career that requires creative thinking adaptability teamwork and technology skills as a trained computer engineering professional computer engineering concerns itself with the understanding and design of hardware needed to carry out computation as well as the hardware software interface it is sometimes said that computer engineering is the nexus that connects electrical engineering and computer science raleigh nc north carolina state university at raleigh offers 8 computer engineering degree programs it s a very large public four year university in a large city in 2022 237 computer engineering students graduated with students earning 136 bachelor s degrees 57 master s degrees 39 certificates and 5 doctoral degrees the computer engineering program is where the study of hardware and software interfaces come together join us to develop your interests at the juncture of electrical engineering and computer science and learn how to design create and test software hardware and system designs for applications in business industry and government online computer engineering courses offer a convenient and flexible way to enhance your knowledge or learn new computer engineering skills choose from a wide range of computer engineering courses offered by top universities and industry leaders tailored to various skill levels our bs degree program combines a strong emphasis on electrical engineering primarily electronic circuits and systems a broad basis in mathematics physical science and general engineering fundamentals of computer science including programming methodology software engineering computer engineering is the integration of computer science physics and electronic engineering in the development of software and hardware computer engineers primarily focus on the

design of computing devices from personal computers to microcontrollers they not only write software but also firmware

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