COE

* Top ten ranked graduate and undergraduate programs in nearly every engineering field
* 14 departments/divisions and 60+ fields of study
* Flexible, interdisciplinary degree programs for students who choose to customize their course of study
* Combined bachelor’s/master’s programs that enable students to earn both degrees in just five years
* Unique global study, travel, and work opportunities
* Michigan Engineers will excel in all of these areas of endeavor. They will also be prepared to become successful leaders, managers, entrepreneurs and humanitarians.
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MDP program.

Faculty sponsored research team. The Multilegged Robots and Animal Motion (Mu-RoAM) team applies core principles of animal locomotion and distills their mathematical principles, and applies them to create advance robot technology. The Mu-RoAM team will design and fabricate robots using computer vision and machine learning automation of the animal experiments. We will fold core mechanical and electronic technologies into novel robot designs.

Essay #2 (Required for all applicants.)  
Describe the unique qualities that attract you to the specific undergraduate College or School to which you are applying at the University of Michigan. How would that curriculum support your interests?

Industry sponsored

1. 与规划相契合。Interested in CE,
2. high rank COE, all top 10
3. interdisciplinary MDP
4. rewarding courses 选一些课
5. opportunities.
6. 工业界

After having learnt the combinations of different digital components and built some simple digital devices in the course “Introduction to logic design”, I grew a strong interest in organizations and implementations of the computer system. I aspire to pursue a CE major and go deep into computer architecture. CoE attracts me the most for its well-arranged courses, strong connection to industrial fields and the interdisciplinary environment, which perfectly meets my academic and career development plan.

Firstly, CoE’s abundant CE courses make it a perfect place for me to enrich professional knowledge. I reckon that in order to become an outstanding computer engineer, both hardware and software knowledge are required. I find that the core electives of CE track includes both software courses like EECS281 and hardware courses like EECS312, which perfectly meets my needs. After having learnt the fundamentals of computer engineering, I would like to take EECS 470 and 570 to gain the knowledge of virtual memory and multi-processors as well as a better understanding of computer architecture. Besides, I am also planning to take EECS 373 and 473 to acquire some knowledge about the embedded system.

Secondly, as an engineering student, I believe our mission is to solve real world problems instead of purely staying on a theoretical level. CoE’s MDP program really appeals to me for it allows students to practice what they have learnt in reality. If I were a junior Michigan student now, I would definitely join the 2022 industry sponsored team “Arriver: Driver Alert System Design for Enhanced Accessibility”. I want to apply the knowledge learnt in EECS373 and 461 to take charge of the system design job and get suggestions from the mentor. I always wonder how experts from the industrial field view a certain design and a function. Additionally, I want to take advantage of the summer internship opportunities that the MDP provides to step forward in my career life.

Lastly, always wondering how industrial products are actually manufactured, CoE’ interdisciplinary flexible electives perfectly fulfill my needs for it allows me to take courses in the fields of IOE and ME. I desire to take MECHENG250 to learn and try to design some basic manufacturing processes. In addition, I am willing to take IOE202 to learn the process of analysis and decision making in industry. I believe the interdisciplinary knowledge I gained here will allows me stand out in my future development.

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