

University Planning & Analysis

2012 Alumni Survey Insert

Department of Engineering – Mechatronics Concentration

intro The joint Engineering - Mechatronics Concentration of North Carolina State University and the University of North Carolina at Asheville has defined specific Program Educational Objectives that graduates are expected to attain within a few years after graduation. As part of our ABET accreditation, we must demonstrate the extent to which our graduates have attained these Program Educational Objectives since graduating from NC State. We appreciate your taking the time to answer these questions.

Q1 For each of the following Program Educational Objectives (PEO), please consider your experiences and opportunities since earning your undergraduate degree in Engineering - Mechatronics Concentration, and indicate the extent to which you have attained the objectives described.

	Not at all attained (1)	To a small extent attained (2)	To a moderate extent attained (3)	To a large extent attained (4)	To a very large extent attained (5)	Not applicable (0)
Apply mechanical engineering and electrical engineering knowledge and skills to problems and challenges in the areas of mechatronics engineering. (1)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Integrate and use systems or devices incorporating modern microelectronics, information technologies, and modern engineering tools for product design, development, and manufacturing. (2)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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<p>Demonstrate professional interaction, communicate effectively with team members, and work effectively on multidisciplinary teams to achieve design and project objectives. (3)</p>	○	○	○	○	○	○
<p>Engage in lifelong learning in their profession and practice professionalism and ethical responsibility. (4)</p>	○	○	○	○	○	○

Q2 Please share any feedback you have on the appropriateness of the four Program Educational Objectives above. Specifically, which, if any, would you drop and why? What, if anything, is missing?

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Q3 How often have you done each of the following activities since earning your undergraduate degree?

	Never (0)	Seldom (1)	Sometimes (2)	Often (3)	Routinely (4)
Applied mechanical engineering knowledge and skills (1)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Applied electrical engineering knowledge and skills (2)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Solved real world problems (3)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Designed mechatronic systems or devices (4)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Incorporated modern microelectronics, information technologies, and modern engineering tools for product design, development, and manufacturing (5)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Analyzed solutions for design and project objectives (6)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Considered the impact of engineering solutions (7)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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Exercised ethical and professional responsibility (8)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Communicated with diverse audiences (9)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Prepared written reports and communications (10)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Made oral presentations (11)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Worked on a team (12)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Worked on a multi-disciplinary team (13)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mentored others (14)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Managed others (15)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Managed projects (16)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Provided leadership (17)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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Q4 Please indicate the number of times you have done each of the following since earning your undergraduate degree in Engineering - Mechatronics Concentration.

	Never (0)	Once (1)	Twice (2)	Three times (3)	Four or more times (4)
Attended events (e.g. networking events, product marketing fairs, career fairs) to learn about advances in my field (1)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Attended a conference in my field (2)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Published an article in a professional magazine or journal (3)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Submitted an invention disclosure or patent application (4)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Taken a short course/workshop in my field (5)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Taken a short course/workshop in a field outside my formal training (6)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Taken a semester-long course to broaden my knowledge in fields outside my formal training	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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(7) Taken a graduate course in my field (8)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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Q5 How many different professional organizations have you been a member of since graduating?

- 0 (0)
- 1 (1)
- 2 (2)
- 3 (3)
- 4 or more (4)

Q6 Have you obtained a postgraduate certificate since graduating? (Note: This does not include any advanced degrees you might have obtained, e.g., Masters, Doctoral, etc.)

- Yes (please specify what certificate(s) you have obtained) (1) _____
- No (0)

Q7 Have you obtained professional licensure?

- Yes (1)
- No, but plan to do so in the next three years (2)
- No, but might do so at some point in the future (3)
- No, and do not plan on doing so (4)

Answer If Have you obtained professional licensure? No, but plan to do so in the <u>next three years</u> Is Selected

Q8 Have you reviewed any licensure preparation materials?

- Yes (1)
- No (0)

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Answer If insert2 Is Equal to NONE

outro1 Thank you for completing the Engineering - Mechatronics Concentration Survey! You must click on the 'submit' button in order for your responses to be saved. You will not be able to return to this survey once you submit your responses.

Answer If insert2 Is Not Equal to NONE

outro2 Thank you for completing the Engineering - Mechatronics Concentration Survey! You must click on the 'submit' button in order for your responses to be saved. You will then be taken to a brief survey specifically for alumni who graduated from the \${e://Field/prog2}.