

CLEVELAND STATE UNIVERSITY
Department of Electrical and Computer Engineering
EEC 493 Senior Design Survey

Project Title: _____

Number of Students: _____

Assessment by: _____

Date: _____

Please enter a score of up to 10 for each program outcome, or check “no basis for judgment.”

Program Outcome	Excellent 9-10	Very Good 8-9	Good 7-8	Satis- factory 6-7	Unsatisfactory 0-6	No Basis for Judgme nt
(a) Ability to apply knowledge of mathematics, science, and engineering to general electrical or computer engineering	Strong evidence of mathematics, science and engineering knowledge having been used in project design and implementation		Good evidence of mathematics, science and engineering knowledge having been used in project design and implementation		Little evidence of mathematics, science and engineering knowledge having been used in project design and implementation	
Score:	Comments:					
(b) Ability to design and conduct electrical or computer engineering experiments, as well as to analyze and interpret data	Complete and sound experimental design, comprehensive data collection, analysis and test procedures		Relatively complete experimental design, data collected, mostly analyzed, refers to proper test methods		Some important data not collected, weak analysis	
Score:	Comments:					
(c) Ability to design a system, component, or process to meet desired needs	Complete design, considering all relevant needs explicitly		Mostly complete design, missing consideration of one or more important needs		Design inadequately developed, does not consider most or all needs	
Score:	Comments:					
(d) Ability to function on multi-disciplinary teams	A number of disciplines are addressed specifically and completely		Some disciplines addressed well, some neglected		Excessive focus on one discipline, neglect of others	
Score:	Comments:					
(e) Ability to identify, formulate, and solve electrical or computer engineering problems	Problems very well formulated, creative solutions		Problem formulation sketchy, routine solutions		Problem poorly framed, solutions inadequately developed	
Score:	Comments:					
(f) Understanding of professional and ethical responsibilities	Strong consideration of professional and ethical issues, client considerations well represented and addressed		Some discussion of professional and ethical aspects, discussion of client considerations		Little or no consideration of ethics	
Score:	Comments:					

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(g) An ability to communicate effectively	Team shows excellent presentation skills		Presentation uneven between team members, and/or some problems with presentation graphics		Serious gaps in the presentation, poor graphics, poor presentation by some team members	
Score:	Comments:					
(h) The broad education necessary to understand the impact of engineering solutions in a global and societal context	Explicit discussion of global and societal impacts		Some discussion of broader impacts		Little or no acknowledgement of broader impacts	
Score:	Comments:					
(i) Recognition of the need for, and ability to engage in life-long learning	Team demonstrates a broad awareness of alternate technologies and design approaches, and of other research activity in the area of their design project		Team demonstrates some awareness of alternate technologies and approaches to their proposed design		Little or no awareness of alternate technologies or design approaches	
Score:	Comments:					
(j) Knowledge of contemporary issues	Contemporary issues well integrated into the project presentation		Shows some knowledge of contemporary issues		Ignores contemporary issues	
Score:	Comments:					
(k) Ability to use the techniques, skills, and modern engineering tools necessary for electrical or computer engineering practice	Correct use of proper test methods and software, highly professional presentation		Proper methods identified, suitable application of tools		Outdated or incorrect engineering procedures, improper application	
Score:	Comments:					

Overall Comments: