

**2011-12**

EVALUATION OF EOC4804 SENIOR OCEAN ENGINEERING DESIGN PROJECT

**COMPLETED EVALUATION FORMS**

**Project Title: VERTIPRO – Vertical Profiler**

**EVALUATORS (Internal)**

1. Dr. Manhar Dhanak, Department of Ocean and Mechanical Engineering, FAU
2. Dr. Stewart Glegg, Department of Ocean and Mechanical Engineering, FAU
3. Dr. Edgar An, Department of Ocean and Mechanical Engineering, FAU
4. Dr. R. Granata, Department of Ocean and Mechanical Engineering, FAU
5. Dr. P. Beaujean, Department of Ocean and Mechanical Engineering, FAU
6. Dr. F Presuel-Moreno, Department of Ocean and Mechanical Engineering, FAU
7. Dr. M. Madani, Adjunct Faculty, Department of Ocean and Mechanical Engineering, FAU
8. Dr. J. vanZwieten, SNMREC, Florida Atlantic University
9. D. Briggs, Adjunct Faculty (retd.) Department of Ocean and Mechanical Engineering, FAU
10. Dr. Karl von Ellenrieder (responsible for individual assessments and course grading)

**EVALUATORS (External – Industry & Navy)**

11. Kevin Meier, Naval Surface Warfare Center, Carderock Division, US Navy
12. Bill Venezia, Naval Surface Warfare Center, Carderock Division, US Navy
13. Patric Hudson, Naval Surface Warfare Center, Carderock Division, US Navy
14. Eric Dykes, Naval Surface Warfare Center, Carderock Division, US Navy
15. Dr. Frank Leban, Office of Naval Research, US Navy
16. Dr. Paul Rushfeldt, Lockheed Martin Corporation
17. Joe Lambiote, Lockheed Martin Corporation
18. Floria Clements, Lockheed Martin Corporation
19. Nicolas Agostinelli, Lockheed Martin Corporation
20. Jim Whitney, Lockheed Martin Corporation

(To be completed by Industry and Navy/ONR attendees/representatives and OME/College faculty attending the presentation)

## EVALUATION OF TEAM PERFORMANCE IN EOC 4804 OCEAN ENGINEERING DESIGN

Instructor: Karl von Ellenrieder

Semester: Spring 2012

Project Title: **Vertipro Vertical Profiler**

Evaluator's Name and Affiliation (Please Print): Mauricio Cunha

Dear Evaluator: Based on the design accomplishments, team effort and project presentation, please rate the team's overall attainment of the following outcomes. **If any of the outcome(s) cannot be evaluated based on the available information, you may leave those unevaluated.** Any additional comments are welcomed. Please return the completed forms to Dr. Karl von Ellenrieder. Thanks!

Item	Evaluation		
	Poor	Satisfactory	Excellent
a. An ability to apply knowledge of mathematics, science, and engineering			
b. An ability to design and construct experiments, as well as to analyze and interpret data			
c. An ability to design a system, component, or process to meet desired needs			
d. An ability to function on multi-disciplinary teams			
e. An ability to identify, formulate, and solve engineering problems			
f. An understanding of professional and ethical responsibility			
g. An ability to communicate effectively			
h. The broad education necessary to understand the impact of engineering solutions in a global and societal context			
i. A recognition of the need for and an ability to engage in lifelong learning			
j. A knowledge of contemporary issues			
k. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice			

Additional Comments: (Continue on the other side, if more space is needed.)

(To be completed by Industry and Navy/ONR attendees/representatives and OME/College faculty attending the presentation)

## EVALUATION OF TEAM PERFORMANCE IN EOC 4804 OCEAN ENGINEERING DESIGN

Instructor: Karl von Ellenrieder

Semester: Spring 2012

Project Title: **Vertipro Vertical Profiler**

Evaluator's Name and Affiliation (Please Print): Stewart Glegg

Dear Evaluator: Based on the design accomplishments, team effort and project presentation, please rate the team's overall attainment of the following outcomes. **If any of the outcome(s) cannot be evaluated based on the available information, you may leave those unevaluated.** Any additional comments are welcomed. Please return the completed forms to Dr. Karl von Ellenrieder. Thanks!

Item	Evaluation		
	Poor	Satisfactory	Excellent
a. An ability to apply knowledge of mathematics, science, and engineering			✗
b. An ability to design and construct experiments, as well as to analyze and interpret data			✗
c. An ability to design a system, component, or process to meet desired needs			✗
d. An ability to function on multi-disciplinary teams			✓
e. An ability to identify, formulate, and solve engineering problems			✓
f. An understanding of professional and ethical responsibility			✗
g. An ability to communicate effectively			✗
h. The broad education necessary to understand the impact of engineering solutions in a global and societal context			
i. A recognition of the need for and an ability to engage in lifelong learning			
j. A knowledge of contemporary issues			✗
k. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice			✗

Additional Comments: (Continue on the other side, if more space is needed.)

Software development is too challenging

(To be completed by Industry and Navy/ONR attendees/representatives and OME/College faculty attending the presentation)

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Instructor: Karl von Ellenrieder

Semester: Spring 2012

Project Title: **Vertipro Vertical Profiler**

Evaluator's Name and Affiliation (Please Print): Edgar Am

Dear Evaluator: Based on the design accomplishments, team effort and project presentation, please rate the team's overall attainment of the following outcomes. **If any of the outcome(s) cannot be evaluated based on the available information, you may leave those unevaluated.** Any additional comments are welcomed. Please return the completed forms to Dr. Karl von Ellenrieder. Thanks!

Item	Evaluation		
	Poor	Satisfactory	Excellent
a. An ability to apply knowledge of mathematics, science, and engineering			✓
b. An ability to design and construct experiments, as well as to analyze and interpret data			✓
c. An ability to design a system, component, or process to meet desired needs			✓
d. An ability to function on multi-disciplinary teams			✓
e. An ability to identify, formulate, and solve engineering problems			✓
f. An understanding of professional and ethical responsibility			
g. An ability to communicate effectively			✓
h. The broad education necessary to understand the impact of engineering solutions in a global and societal context			
i. A recognition of the need for and an ability to engage in lifelong learning			
j. A knowledge of contemporary issues			
k. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice			✓

Additional Comments: (Continue on the other side, if more space is needed.)

Adaptive sampling  
\* Testing process was not well defined,  
and single point of failure occurred  
in software and possibly ground truth.

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## EVALUATION OF TEAM PERFORMANCE IN EOC 4804 OCEAN ENGINEERING DESIGN

Instructor: Karl von Ellenrieder

Semester: Spring 2012

Project Title: **Vertipro Vertical Profiler**

Evaluator's Name and Affiliation (Please Print): R. GRANATA

Dear Evaluator: Based on the design accomplishments, team effort and project presentation, please rate the team's overall attainment of the following outcomes. **If any of the outcome(s) cannot be evaluated based on the available information, you may leave those unevaluated.** Any additional comments are welcomed. Please return the completed forms to Dr. Karl von Ellenrieder. Thanks!

Item	Evaluation		
	Poor	Satisfactory	Excellent
a. An ability to apply knowledge of mathematics, science, and engineering		✓	
b. An ability to design and construct experiments, as well as to analyze and interpret data		✓	
c. An ability to design a system, component, or process to meet desired needs		✓	
d. An ability to function on multi-disciplinary teams		✓	
e. An ability to identify, formulate, and solve engineering problems		✓	
f. An understanding of professional and ethical responsibility		✓	
g. An ability to communicate effectively		✓	
h. The broad education necessary to understand the impact of engineering solutions in a global and societal context		✓	
i. A recognition of the need for and an ability to engage in lifelong learning		✓	
j. A knowledge of contemporary issues		✓	
k. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice		✓	

Additional Comments: (Continue on the other side, if more space is needed.)

TESTING AT SEA WAS TOO AMBITIOUS.

(To be completed by Industry and Navy/ONR attendees/representatives and OME/College faculty attending the presentation)

## EVALUATION OF TEAM PERFORMANCE IN EOC 4804 OCEAN ENGINEERING DESIGN

Instructor: Karl von Ellenrieder

Semester: Spring 2012

Project Title: **Vertipro Vertical Profiler**

Evaluator's Name and Affiliation (Please Print): Beaujean - FAU

Dear Evaluator: Based on the design accomplishments, team effort and project presentation, please rate the team's overall attainment of the following outcomes. **If any of the outcome(s) cannot be evaluated based on the available information, you may leave those unevaluated.** Any additional comments are welcomed. Please return the completed forms to Dr. Karl von Ellenrieder. Thanks!

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a. An ability to apply knowledge of mathematics, science, and engineering			✓
b. An ability to design and construct experiments, as well as to analyze and interpret data			✓
c. An ability to design a system, component, or process to meet desired needs			✓
d. An ability to function on multi-disciplinary teams			✓
e. An ability to identify, formulate, and solve engineering problems			✓
f. An understanding of professional and ethical responsibility			✓
g. An ability to communicate effectively			✓
h. The broad education necessary to understand the impact of engineering solutions in a global and societal context			✓
i. A recognition of the need for and an ability to engage in lifelong learning			✓
j. A knowledge of contemporary issues			✓
k. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice			✓

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## EVALUATION OF TEAM PERFORMANCE IN EOC 4804 OCEAN ENGINEERING DESIGN

Instructor: Karl von Ellenrieder

Semester: Spring 2012

Project Title: **Vertipro Vertical Profiler**

Evaluator's Name and Affiliation (Please Print): Francisco Presuel

Dear Evaluator: Based on the design accomplishments, team effort and project presentation, please rate the team's overall attainment of the following outcomes. **If any of the outcome(s) cannot be evaluated based on the available information, you may leave those unevaluated.** Any additional comments are welcomed. Please return the completed forms to Dr. Karl von Ellenrieder. Thanks!

Item	Evaluation		
	Poor	Satisfactory	Excellent
a. An ability to apply knowledge of mathematics, science, and engineering			✓
b. An ability to design and construct experiments, as well as to analyze and interpret data			✓
c. An ability to design a system, component, or process to meet desired needs		✓	
d. An ability to function on multi-disciplinary teams		✓	
e. An ability to identify, formulate, and solve engineering problems		✗	✓
f. An understanding of professional and ethical responsibility			
g. An ability to communicate effectively			✓
h. The broad education necessary to understand the impact of engineering solutions in a global and societal context		✓	
i. A recognition of the need for and an ability to engage in lifelong learning			✓
j. A knowledge of contemporary issues		✓	
k. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice			✓

Additional Comments: (Continue on the other side, if more space is needed.)

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## EVALUATION OF TEAM PERFORMANCE IN EOC 4804 OCEAN ENGINEERING DESIGN

Instructor: Karl von Ellenrieder

Semester: Spring 2012

Project Title: **Vertipro Vertical Profiler**

Evaluator's Name and Affiliation (Please Print): Mahmoud Madani FAU

Dear Evaluator: Based on the design accomplishments, team effort and project presentation, please rate the team's overall attainment of the following outcomes. **If any of the outcome(s) cannot be evaluated based on the available information, you may leave those unevaluated.** Any additional comments are welcomed. Please return the completed forms to Dr. Karl von Ellenrieder. Thanks!

Item	Evaluation		
	Poor	Satisfactory	Excellent
a. An ability to apply knowledge of mathematics, science, and engineering		✓	
b. An ability to design and construct experiments, as well as to analyze and interpret data			✓
c. An ability to design a system, component, or process to meet desired needs			✓
d. An ability to function on multi-disciplinary teams			✓
e. An ability to identify, formulate, and solve engineering problems		✓	
f. An understanding of professional and ethical responsibility		✓	
g. An ability to communicate effectively			✓
h. The broad education necessary to understand the impact of engineering solutions in a global and societal context			✓
i. A recognition of the need for and an ability to engage in lifelong learning		✓	
j. A knowledge of contemporary issues			✓
k. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice			✓

Additional Comments: (Continue on the other side, if more space is needed.)

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## EVALUATION OF TEAM PERFORMANCE IN EOC 4804 OCEAN ENGINEERING DESIGN

Instructor: Karl von Ellenrieder

Semester: Spring 2012

Project Title: **Vertipro Vertical Profiler**

Evaluator's Name and Affiliation (Please Print): James Van Zwieten SNMREC

Dear Evaluator: Based on the design accomplishments, team effort and project presentation, please rate the team's overall attainment of the following outcomes. **If any of the outcome(s) cannot be evaluated based on the available information, you may leave those unevaluated.** Any additional comments are welcomed. Please return the completed forms to Dr. Karl von Ellenrieder. Thanks!

Item	Evaluation		
	Poor	Satisfactory	Excellent
a. An ability to apply knowledge of mathematics, science, and engineering			X
b. An ability to design and construct experiments, as well as to analyze and interpret data		X	
c. An ability to design a system, component, or process to meet desired needs			X
d. An ability to function on multi-disciplinary teams			X
e. An ability to identify, formulate, and solve engineering problems		X	
f. An understanding of professional and ethical responsibility			X
g. An ability to communicate effectively	X		
h. The broad education necessary to understand the impact of engineering solutions in a global and societal context			X
i. A recognition of the need for and an ability to engage in lifelong learning			
j. A knowledge of contemporary issues			X
k. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice		X	

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## EVALUATION OF TEAM PERFORMANCE IN EOC 4804 OCEAN ENGINEERING DESIGN

Instructor: Karl von Ellenrieder

Semester: Spring 2012

Project Title: Vertipro Vertical Profiler

Evaluator's Name and Affiliation (Please Print): Douglas Briggs

Dear Evaluator: Based on the design accomplishments, team effort and project presentation, please rate the team's overall attainment of the following outcomes. **If any of the outcome(s) cannot be evaluated based on the available information, you may leave those unevaluated.** Any additional comments are welcomed. Please return the completed forms to Dr. Karl von Ellenrieder. Thanks!

Item	Evaluation		
	Poor	Satisfactory	Excellent
a. An ability to apply knowledge of mathematics, science, and engineering			✓
b. An ability to design and construct experiments, as well as to analyze and interpret data			✓
c. An ability to design a system, component, or process to meet desired needs		✓	
d. An ability to function on multi-disciplinary teams			✓
e. An ability to identify, formulate, and solve engineering problems			✓
f. An understanding of professional and ethical responsibility			✓
g. An ability to communicate effectively			✓
h. The broad education necessary to understand the impact of engineering solutions in a global and societal context			✓
i. A recognition of the need for and an ability to engage in lifelong learning		(Not Determined)	
j. A knowledge of contemporary issues			✓
k. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice			✓

Additional Comments: (Continue on the other side, if more space is needed.)

Good ~~presented~~ presentation by all.

But OE's will need to solve mooring/deployment problems too - However the team took the easy way out - Used a subcontractor.

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### EVALUATION OF TEAM PERFORMANCE IN EOC 4804 OCEAN ENGINEERING DESIGN

Instructor: Karl von Ellenrieder

Project Title: ~~Ares Energy Scavenging Ship~~ VERTI PRO VERTICAL PROFILER

Semester: Spring 2012

RETIREN LOCKHEED  
MARTIN

Evaluator's Name and Affiliation (Please Print): PAUL RUSHFELDT SELF

Dear Evaluator: Based on the design accomplishments, team effort and project presentation, please rate the team's overall attainment of the following outcomes. **If any of the outcome(s) cannot be evaluated based on the available information, you may leave those unevaluated.** Any additional comments are welcomed. Please return the completed forms to Dr. Karl von Ellenrieder. Thanks!

Item	Evaluation		
	Poor	Satisfactory	Excellent
a. An ability to apply knowledge of mathematics, science, and engineering		X	
b. An ability to design and construct experiments, as well as to analyze and interpret data		X	
c. An ability to design a system, component, or process to meet desired needs		X	
d. An ability to function on multi-disciplinary teams			X
e. An ability to identify, formulate, and solve engineering problems		X	
f. An understanding of professional and ethical responsibility			X
g. An ability to communicate effectively			X
h. The broad education necessary to understand the impact of engineering solutions in a global and societal context			X
i. A recognition of the need for and an ability to engage in lifelong learning			X
j. A knowledge of contemporary issues			X
k. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice		X	

Additional Comments: (Continue on the other side, if more space is needed.)

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## EVALUATION OF TEAM PERFORMANCE IN EOC 4804 OCEAN ENGINEERING DESIGN

Instructor: Karl von Ellenrieder

Semester: Spring 2012

Project Title: **Vertipro Vertical Profiler**

Evaluator's Name and Affiliation (Please Print): Jim WHITNEY - LOCKHEED MARTIN

Dear Evaluator: Based on the design accomplishments, team effort and project presentation, please rate the team's overall attainment of the following outcomes. **If any of the outcome(s) cannot be evaluated based on the available information, you may leave those unevaluated.** Any additional comments are welcomed. Please return the completed forms to Dr. Karl von Ellenrieder. Thanks!

Item	Evaluation		
	Poor	Satisfactory	Excellent
a. An ability to apply knowledge of mathematics, science, and engineering		✓	
b. An ability to design and construct experiments, as well as to analyze and interpret data			✓
c. An ability to design a system, component, or process to meet desired needs		✓	
d. An ability to function on multi-disciplinary teams			✓
e. An ability to identify, formulate, and solve engineering problems			✓
f. An understanding of professional and ethical responsibility			✓
g. An ability to communicate effectively			✓
h. The broad education necessary to understand the impact of engineering solutions in a global and societal context			
i. A recognition of the need for and an ability to engage in lifelong learning		✓	
j. A knowledge of contemporary issues			✓
k. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice		✓	

Additional Comments: (Continue on the other side, if more space is needed.)

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## EVALUATION OF TEAM PERFORMANCE IN EOC 4804 OCEAN ENGINEERING DESIGN

Instructor: Karl von Ellenrieder

Semester: Spring 2012

Project Title: **Vertipro Vertical Profiler**

Evaluator's Name and Affiliation (Please Print): Joe Lambiotte, Lockheed Martin

Dear Evaluator: Based on the design accomplishments, team effort and project presentation, please rate the team's overall attainment of the following outcomes. **If any of the outcome(s) cannot be evaluated based on the available information, you may leave those unevaluated.** Any additional comments are welcomed. Please return the completed forms to Dr. Karl von Ellenrieder. Thanks!

Item	Evaluation		
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a. An ability to apply knowledge of mathematics, science, and engineering		✓	
b. An ability to design and construct experiments, as well as to analyze and interpret data		✓	
c. An ability to design a system, component, or process to meet desired needs		✓	
d. An ability to function on multi-disciplinary teams			✓
e. An ability to identify, formulate, and solve engineering problems		✓	
f. An understanding of professional and ethical responsibility		✓	✓
g. An ability to communicate effectively			✓
h. The broad education necessary to understand the impact of engineering solutions in a global and societal context		✓	✓
i. A recognition of the need for and an ability to engage in lifelong learning			✓
j. A knowledge of contemporary issues		✓	
k. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice			✓

Additional Comments: (Continue on the other side, if more space is needed.)

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## EVALUATION OF TEAM PERFORMANCE IN EOC 4804 OCEAN ENGINEERING DESIGN

Instructor: Karl von Ellenrieder

Semester: Spring 2012

Project Title: **Vertipro Vertical Profiler**

Evaluator's Name and Affiliation (Please Print): Floria Clements / OEA alum / LMSO

Dear Evaluator: Based on the design accomplishments, team effort and project presentation, please rate the team's overall attainment of the following outcomes. **If any of the outcome(s) cannot be evaluated based on the available information, you may leave those unevaluated.** Any additional comments are welcomed. Please return the completed forms to Dr. Karl von Ellenrieder. Thanks!

Item	Evaluation		
	Poor	Satisfactory	Excellent
a. An ability to apply knowledge of mathematics, science, and engineering			X
b. An ability to design and construct experiments, as well as to analyze and interpret data			X
c. An ability to design a system, component, or process to meet desired needs			X
d. An ability to function on multi-disciplinary teams			X
e. An ability to identify, formulate, and solve engineering problems			X
f. An understanding of professional and ethical responsibility			X
g. An ability to communicate effectively		X	
h. The broad education necessary to understand the impact of engineering solutions in a global and societal context			X
i. A recognition of the need for and an ability to engage in lifelong learning			X
j. A knowledge of contemporary issues			X
k. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice			X

Additional Comments: (Continue on the other side, if more space is needed.)

Need ~~more~~ slide takeaways, (especially on results slides)

Great inclusion of the "Second Generic Suggs"!!!

Good job!

(To be completed by Industry and Navy/ONR attendees/representatives and OME/College faculty attending the presentation)

## **EVALUATION OF TEAM PERFORMANCE IN EOC 4804 OCEAN ENGINEERING DESIGN**

Instructor: Karl von Ellenrieder

Semester: Spring 2012

Project Title: **Vertipro Vertical Profiler**

Evaluator's Name and Affiliation (Please Print): Nicolas Agostinelli (Lockheed Martin)

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d. An ability to function on multi-disciplinary teams			✓
e. An ability to identify, formulate, and solve engineering problems			✓
f. An understanding of professional and ethical responsibility			✓
g. An ability to communicate effectively			✓
h. The broad education necessary to understand the impact of engineering solutions in a global and societal context			✓
i. A recognition of the need for and an ability to engage in lifelong learning			✓
j. A knowledge of contemporary issues			✓
k. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice			✓

Additional Comments: (Continue on the other side, if more space is needed.)

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## EVALUATION OF TEAM PERFORMANCE IN EOC 4804 OCEAN ENGINEERING DESIGN

Instructor: Karl von Ellenrieder

Semester: Spring 2012

Project Title: Vertipro Vertical Profiler

Evaluator's Name and Affiliation (Please Print): Kevin Meier NSWC CD

Dear Evaluator: Based on the design accomplishments, team effort and project presentation, please rate the team's overall attainment of the following outcomes. **If any of the outcome(s) cannot be evaluated based on the available information, you may leave those unevaluated.** Any additional comments are welcomed. Please return the completed forms to Dr. Karl von Ellenrieder. Thanks!

Item	Evaluation		
	Poor	Satisfactory	Excellent
a. An ability to apply knowledge of mathematics, science, and engineering		/	2
b. An ability to design and construct experiments, as well as to analyze and interpret data		/	
c. An ability to design a system, component, or process to meet desired needs		/	
d. An ability to function on multi-disciplinary teams			/
e. An ability to identify, formulate, and solve engineering problems			/
f. An understanding of professional and ethical responsibility			/
g. An ability to communicate effectively		/	
h. The broad education necessary to understand the impact of engineering solutions in a global and societal context			
i. A recognition of the need for and an ability to engage in lifelong learning			
j. A knowledge of contemporary issues			
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Additional Comments: (Continue on the other side, if more space is needed.)

Would have liked to see more calcs on buoyancy, moorings. More emphasis on testing of the sys & any assumptions made through the process (Maybe that's)

Great job on organizing working ( a CDR issue ) with outside organizations & adapting the schedule!

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Instructor: Karl von Ellenrieder

Semester: Spring 2012

Project Title: **Vertipro Vertical Profiler**

Evaluator's Name and Affiliation (Please Print): PATRICK HUDSON, NSWC CARDEROCK

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c. An ability to design a system, component, or process to meet desired needs		✗	
d. An ability to function on multi-disciplinary teams			✗
e. An ability to identify, formulate, and solve engineering problems			✗
f. An understanding of professional and ethical responsibility			✗
g. An ability to communicate effectively			✗
h. The broad education necessary to understand the impact of engineering solutions in a global and societal context			✗
i. A recognition of the need for and an ability to engage in lifelong learning			✗
j. A knowledge of contemporary issues			✗
k. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice		✗	

Additional Comments: (Continue on the other side, if more space is needed.)

- LENGTH OF SUBSURFACE PROFILER SEEKS TOO LONG FOR THIS APPLICATION.
- MODELING OF MOORING, WHILE CRITICAL TO PROJECT, SEEMED LACKING.
- GOOD INTEGRATION OF COMPONENTS
- SOFTWARE ISSUES PROBLEMATIC - PRIOR BENCH TESTING OF SOFTWARE
- CALIBRATION OF SENSORS?

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## EVALUATION OF TEAM PERFORMANCE IN EOC 4804 OCEAN ENGINEERING DESIGN

Instructor: Karl von Ellenrieder

Semester: Spring 2012

Project Title: Vertipro Vertical Profiler

*NAVAI Surface Warfare  
Center Carderock Division*

Evaluator's Name and Affiliation (Please Print): William A. Venezia

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(To be completed by Industry and Navy/ONR attendees/representatives and OME/College faculty attending the presentation)

## EVALUATION OF TEAM PERFORMANCE IN EOC 4804 OCEAN ENGINEERING DESIGN

Instructor: Karl von Ellenrieder

Semester: Spring 2012

Project Title: Vertipro Vertical Profiler

Evaluator's Name and Affiliation (Please Print): Eric Rykes, NSW C

Dear Evaluator: Based on the design accomplishments, team effort and project presentation, please rate the team's overall attainment of the following outcomes. **If any of the outcome(s) cannot be evaluated based on the available information, you may leave those unevaluated.** Any additional comments are welcomed. Please return the completed forms to Dr. Karl von Ellenrieder. Thanks!

Item	Evaluation		
	Poor	Satisfactory	Excellent
a. An ability to apply knowledge of mathematics, science, and engineering		✓	
b. An ability to design and construct experiments, as well as to analyze and interpret data		✓	
c. An ability to design a system, component, or process to meet desired needs		✓	
d. An ability to function on multi-disciplinary teams			✓
e. An ability to identify, formulate, and solve engineering problems		✓	
f. An understanding of professional and ethical responsibility			
g. An ability to communicate effectively		✓	
h. The broad education necessary to understand the impact of engineering solutions in a global and societal context			
i. A recognition of the need for and an ability to engage in lifelong learning			
j. A knowledge of contemporary issues		✓	
k. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice		✓	

Additional Comments: (Continue on the other side, if more space is needed.)

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## EVALUATION OF TEAM PERFORMANCE IN EOC 4804 OCEAN ENGINEERING DESIGN

Instructor: Karl von Ellenrieder

Semester: Spring 2012

Project Title: **Vertipro Vertical Profiler**

Evaluator's Name and Affiliation (Please Print): DR. FRANK LEBAN, ONR 333

Dear Evaluator: Based on the design accomplishments, team effort and project presentation, please rate the team's overall attainment of the following outcomes. **If any of the outcome(s) cannot be evaluated based on the available information, you may leave those unevaluated.** Any additional comments are welcomed. Please return the completed forms to Dr. Karl von Ellenrieder. Thanks!

Item	Evaluation		
	Poor	Satisfactory	Excellent
a. An ability to apply knowledge of mathematics, science, and engineering			X
b. An ability to design and construct experiments, as well as to analyze and interpret data		X	
c. An ability to design a system, component, or process to meet desired needs			X
d. An ability to function on multi-disciplinary teams			X
e. An ability to identify, formulate, and solve engineering problems		X	
f. An understanding of professional and ethical responsibility		X	
g. An ability to communicate effectively		X	
h. The broad education necessary to understand the impact of engineering solutions in a global and societal context			X
i. A recognition of the need for and an ability to engage in lifelong learning		X	
j. A knowledge of contemporary issues		X	
k. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice			X

Additional Comments: (Continue on the other side, if more space is needed.)

- b. ~~little~~ discussion of statistical analysis in spite of data with obvious measurement noise.
- c. The design appeared to be better than what was demonstrated by the implementation.
- d. Individual communication skills were satisfactory, overall presentation organization could have been better.
- d. Decision making was collaborative process as stated by group