2025–2026 Automation Controls/SCADA Program Review

Form: Annual Program Review

Submitted by: Joshua Renken (41201)

Submitted on: 1/7/2026

Program: Automation Controls/SCADA

Year: 2025-2026

Begin Date: 01/07/2026

A. Program Learning Outcomes

1. Date of Review: 01/07/2026

2. Program outcomes review: In response to staff changes and consultations with the president, the first-year and summer semesters were overhauled. Bi-weekly review sessions with faculty leads and student reps provided feedback. Adjustments included refined pacing and enhanced support resources. Former students and advisory board members also contributed insights.

3. Outcomes up-to-date in Coursedog and on the program web page: No

B. Course Syllabi

Course syllabi include course title and number; credit hours; instructor; contact info; prerequisites; course description; competencies; required texts; grading criteria; freedom of expression; academic integrity; ADA; nondiscrimination.

Date of Review: 08/21/2025

Syllabi up-to-date: No

All first-semester courses revised to align with essential job skills identified through a five-year survey and advisory board feedback.

C. Program Competencies

1. Date of Review: 08/21/2025

2. Competency review: Many changes made in first-semester classes based on advisory board and past student surveys.

3. Competencies up-to-date in Coursedog: No

D. Course Assessments

Assessments used include oral examinations, written reports, examinations, comprehensive finals, class participation, portfolio projects, capstone projects, other projects, videos of student mastery, quizzes, lab demonstrations, simulations.

Assessments matched to competencies: Yes

Changes: Most courses now include a capstone or final project plus a final written exam.

Higher-level thinking: Final semester lab and capstone projects require application of four semesters of knowledge; projects designed for individual completion.

E. Certifications

No changes made

F. Program Internships/Externships

1. Evaluation: NA

2. Curriculum changes: NA

H. Enrollment

88% even after cap raised from 18 to 24

I. Retention

Yes, 79%

J. Graduation

64% for past year; 5-year average 76%

K. In-field Job Placement

Yes, 96.4% 5-year average

L. Student Satisfaction

Noel-Levitz not completed this year

M. Alumni Satisfaction

NA

N. Employer Satisfaction

NA

O. Professional Development

Brandon received instructor certificate and completed NIO 001. Both instructors participated in webinars, research, developed demo and simulation projects, and trained on new software.

P. Professional Organizations

Faculty belong: No; reason: vendor-specific organizations would favor one brand and reduce instructional flexibility

Students made aware: No

Q. Advisory Board Recommendations

Electronics curriculum revamped to align with industry requirements.

Personnel responsible: Brandon Andersen

Implementation date: 08/21/2025

R. Program Improvement Plans

Removed old board-level electronics bench equipment; replacing with Arduino Uno controllers and industrial IO devices.

Anticipated costs: $10,000

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