

# Lawrence J. Bolan

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## Education:

Purdue University College of Technology- New Albany:

- Electrical Engineering Technology, Bachelor of Science (Graduated May 2015)
- Final GPA: 3.4
- Capstone Project: Reverse engineering and re-design of an inductive casting machine's controls for a 3<sup>rd</sup> party
- Other major projects (all implemented in physical hardware/software): electronic multi-tiered safe, electronically tuned FM radio, grid following robot, PLC stoplight controls, digital PID controller, analog PID controller, process control water tank reverse-engineering, vehicle alarm controller
- Major Skills acquired: AutoCAD, Atmel AVR (C), general embedded microcontroller design, ladder logic/PLC (Allen Bradley/Automation Direct), project design and management, polyphase system analysis, reverse-engineering, PCB/schematic design (KICAD), systems engineering, signal processing
- Awards: Dean's List and Semester Honors (Fall 2012, Fall 2014)

## Work/Volunteer Experience:

Premium Retail Services (Team Lead and Electronic Display Technician)

- Employed June 2011 - present
- Skills: Liaison operations, customer satisfaction, team leadership, written communication/documentation, time management/scheduling

ActionLink (Merchandiser and Electronic Display Technician)

- Employed October 2012 – June 2015
- Skills: Liaison operations, customer satisfaction, teamwork, written communication, time management/scheduling

Purdue University CoT New Albany (Lab Monitor)

- Employed August 2014 – May 2015
- Skills: Customer service, problem solving

IEEE

- Member 2014 – present
- Purdue University College of Technology- New Albany Student Branch Chair 2014 – 2015

FIRST (Volunteer and FRC mentor)

- On two high school robotics teams: #1747 HBR August 2007- July 2010, #2783 EOT July 2010- July 2011
- Event Volunteer March 2012 – present, mentor on #5492 WCR July 2014
- Skills: People management and coordination, technical observation, technical writing, electronics design and management, Labview Programming, project design and management, team leadership
- Titles/Awards: FIRST Dean's List Semifinalist (2010), electrical sub-team captain (2011)
- Achievements: Two technical instructional guides, distributed as open source

Other Skills:

- Electronics/computer repair and troubleshooting
- Document creation (Microsoft Office, LibreOffice)
- Electronics soldering
- Advanced Linux usage (Debian and Arch Linux)
- Welding (SMAW, MIG, TIG)
- Automotive/bicycle repair and customization