

# Rico Polim

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## EDUCATION

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*The Pennsylvania State University, Schreyer Honors College*

Expected Graduation: Dec 2016

**Dual M.S. in Industrial Engineering and Operations Research**

**Cumulative GPA: 3.95 / 4.00**

**B.S. in Industrial Engineering**

**Integrated Undergraduate and Graduate Program**

Minor in Six Sigma, Minor in Mathematics

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## WORK EXPERIENCE

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**Visibility and Procurement Analyst, Case New Holland Industrial (CNHi)**

**June 2015 – Dec 2015**

- Developed and implemented a machine learning prediction model to forecast the shipment duration of CNHi entities around the world which doubled the accuracy of the previous model, leading to approximately \$1M in holding cost savings
- Designed dashboards using MicroStrategy that summarized the prediction model's result and reduced the entity tracking time from 2 days to 30 seconds
- Managed the relational database of a \$9.5M container bid for APAC and EMEA region, allowing the negotiations team to reduce the total cost of the container bid to \$8.5M

**Laboratory for Intelligent Systems and Analytics (LISA)**

**June 2014 – Present**

**Adviser: Dr. Soundar Kumara**

- Conducted dynamic network analysis on visualizing chemicals and their relationships in chemotherapy articles using Gephi, resulting in a proof of concept on the predictive power of chemical networks
- Led a group of 4 in generating a prediction model on the arrival rate of a hospital emergency department using Excel PivotTable to discover hidden trends and seasonality, producing an accuracy of within 0.5 person/hour

**Math Tutor and Grader, Penn State Learning**

**June 2013 – May 2015**

- Tutored peer college students in calculus and matrices
- Graded students' homework for ordinary and partial differential equations

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## LEADERSHIP AND ACTIVITIES

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**Penn State Formula Society of Automotive Engineers (Formula SAE)**

**Sept 2012 – June 2015**

*Co-Captain, 2014 – 2015*

- Decision maker for a team of 35 tasked with the design, test, and build of a formula style racecar
- Finished 33<sup>rd</sup> out of 120 international teams in the 2015 Formula SAE Michigan Series, which was the team's highest since 2008

*CNC Programmer and Operator, 2013 – 2015*

- Programmed and executed CNC codes to manufacture intricate parts used in the suspension, differential, and braking systems
- Researched, computed, and optimized machining parameters to minimize idle times

*Administrative Lead and Treasurer, 2013 – 2014*

- Contacted potential sponsors to negotiate \$48,000 in funding and created an efficient fund allocation system
- Enhanced the team's balance sheet to a net positive \$7,000 from a debt of \$11,000

*Cost Report and Business Team, 2012 – 2015*

- Managed and documented a \$13,000 cost report and BOM covering all 8 categories of the racecar

*Machinist, 2012 – 2015*

- Coordinated inventory scheduling and total quality management for in-house manufactured parts
- Designed and conducted mentoring sessions to assist newer team members in learning machineries

**National Academic Committee Head, Indonesian Student Association**

**May 2013 – Sept 2014**

- Assessed the academic performance of approximately 7,000 Indonesian students in the US
- Developed a mentoring program to assist Indonesian teenagers in transitioning to universities in the US

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## AWARDS

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- John W. Oswald Award for Scholarship
- Penn State President Sparks Award
- Harold and Inge Marcus Industrial Engineering Scholarship
- International Society of Automation Scholarship Award
- June '15 Penn State Industrial Engineering Student Spotlight

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## SKILLS

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**Software :** R, C++, LINDO, Minitab, Gephi, MicroStrategy, Matlab, Solidworks, Simio, Flexsim, LaTeX, MasterCAM  
**Language:** Bahasa Indonesia, Tio Chiu, English, Malay, 中文