

# Ryan Thomas Mulligan

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## EDUCATION

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Graduated Dec 07 [University of Illinois at Urbana-Champaign](#) (UIUC)  
B.S. in General Engineering and Minor Mathematics  
Operations Research as a Secondary Field  
GPA: 3.91/4.0

## TECHNICAL SKILLS

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Web ( HTML, CSS, Javascript, Rails, web design, Linux web servers)  
Programming (Visual Basic, C, C++, Java, Python, Ruby, Rails, Lisp, HaXe, swfmill, LaTeX, SQL, Mathematica)  
Finance (NPV, p&l, balance sheets, organization treasury)  
Language (Spanish)  
Mathematics (calculus, differential, linear algebra, probability, statistics, non-linear programming)  
Operations Research (stochastic, linear, non-linear, AMPL, scheduling, pricing)  
Control Systems (Analog, Digital, State Space)  
Mechanics (static, dynamic, material, thermodynamic, quantum, fluid)  
Computer Aided Drafting and Modeling (AutoCAD, Inventor)  
Electrical Engineering (analog circuit, signal analysis, embedded digital control systems)

## PRACTICAL EXPERIENCE

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Jan 08 - Present President – Funproductive (<http://funproductive.com/>)  
Programmed Adobe Flash and streaming voice/video server using HaXe to distribute real-time video to website visitors

Aug 06 - Present President – Sassins (<http://sassins.com>)  
Created and managed a web start-up company for running assassins games  
Hosted games for over 1800 players from 3 different countries

Aug 07 - Dec 07 Independent Contractor – Honeywell International (<http://honeywell.com/>)  
Designed comprehensive plan to bring Department of Transportation bottle retesting in house to Danville Works Facility saving \$451,381 per year.

May 07 - Aug 07 Quality Engineer – Caterpillar Inc. (Intern) (<http://cat.com>)  
Programed tools in Microsoft Visual Basic freeing 10 man hours per week  
Led initiative to clean paint line, resulting in 20% reduction of operator foot travel in masking section

May 06 - Aug 06 Manufacturing Engineer – Caterpillar Inc. (Intern) (<http://cat.com>)  
Planned, and implemented entirely new assembly process for Medium Wheel Loader axles.  
Acted in the capacity of senior manufacturing specialist in the absence of one.

Feb 05 - Aug 05 Branch Manager – College Works Painting (<http://collegeworkspainting.com/>)  
Created, developed, and managed an exterior painting business grossing \$60,321  
Learned marketing, sales, management, leadership and self-awareness

Aug 04 - Aug 06 Math Mentor – UIUC NetMath (<http://www.netmath.uiuc.edu/>)  
Mentored twenty five students resulting in their completion of calculus, differential equations, and linear algebra

## LEADERSHIP EXPERIENCE

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Aug 05 - Aug 07 Treasurer of the Honors Student Council Student Organization  
Balanced budgets and forecasted finances leading to improved financial organization

Aug 04 - May 05 Member of the Honors Student Council Student Organization  
Organized several weekly events, including an “Assassins” game with over 30 players  
Provided weekly feedback and ideas at meetings

## AWARDS

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Spring 07 [1<sup>st</sup> place team, Google Games competition, UIUC](#)

Apr 06 - Present [Tau Beta Pi](http://www.tbp.org/) (<http://www.tbp.org/>)

Aug 04 - May 06 [Dean's List](#) (eight semesters)

Aug 04 - Dec 07 [Chancellor's Scholar](#)