

# SIDHARTH AGRAWAL

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## SUMMARY

Innovative and result oriented professional with over five years of experience in leading multi-million dollar projects and a passion for exceeding client expectations. Proven success in strategy and planning, project management, supply-chain, and operations management. Proficient in working with large datasets including data cleaning, data visualization, statistical analysis and extracting insights for driving key decisions. Currently working as an Intern at PennTAP, an energy-consulting firm serving clients in Pennsylvania.

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## SKILLS

- 2015 - Present • Consulting, Data Analytics, Statistics, Machine Learning, Decision Making, Energy Management
- 2010 - 2015 • Strategy and Planning, Project Management, Supply-chain and Operations, Team Management, Contract Management
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## EDUCATION

- 2017 - Present ***Doctor of Philosophy in Engineering (3.98)*** University Park, PA  
The Pennsylvania State University
- 2018 - Present ***Master of Applied Statistics (3.98)*** University Park, PA  
The Pennsylvania State University
- 2015 - 2017 ***Master of Science in Engineering (3.98)*** University Park, PA  
The Pennsylvania State University
- 2006 - 2010 ***Bachelor of Technology in Engineering (3.98)*** Karnataka, IN  
National Institute of Technology Karnataka, Surathkal
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## EXPERIENCE

- 2017 - Present ***Intern at Pennsylvania Technical Assistance Program*** University Park, PA
- Performed data analysis, and statistical analysis of unstructured and structured client data using advanced excel and R to identify key metrics for major business initiatives
  - Recommend changes in industrial layout designs, operations, and energy management through business reports and client presentations highlighting recommended changes, savings and payback period
- 2015 - 2017 ***Research Assistant at The Pennsylvania State University*** University Park, PA
- Developed a decision-making model for optimal selection of proppants using data analysis tools
  - Developed a graphical user interface program using MATLAB to estimate the coal mine roof rating
  - Planned and prepared selected lectures, designed assignments, and graded exams for four courses
- Summer 2017 ***Intern at Global Programs*** University Park, PA
- Assisted with planning of International Student Orientation, which provided transition programming for over 1,500 international students from over 140 different countries
  - Attended meetings with strategic partners university-wide to discuss logistics & planning of orientation
  - Coordinated a graduate student panel focused on providing peer-to-peer support for incoming students
- 2012 - 2014 ***Project Manager at Coal India Limited*** Odisha, IN
- Managed a 10 million tons producing surface mining project
- Supervised a team of 120 employees. Increasing revenue by \$78 million
  - Developed and implemented strategies for project expansion. Expanding operational capacity by 80%
  - Prepared contract documents for transportation services amounting to \$60 million. Saving \$4 million
  - Maximized operational efficiencies through continuous process improvement. Achieving 98% customer satisfaction
- 2010 - 2012 ***Production Manager at Coal India Limited*** Odisha, IN
- Managed a team of 220 employees. Increasing production by 8%.
  - Planned mining operations, optimized resource utilization and scheduled workforce deployment.
  - Facilitated compliance with ISO 14001, ISO 9001 and OHSAS 18001. Obtaining all the 3 certifications.
  - Conducted risk assessment and developed safe operating procedures. Reducing accidents to 0.

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## PROJECTS

- Market research to identify potential clients using online search and data mining techniques for a consulting company
- Planning and execution of project expansion for an energy company for increasing output by 80%
- Analyze the benefits of geofencing technology and implementation of the same in an energy company
- Develop Energy Management handbooks for clients tailored to their requirements.
- Decision-making model for optimal selection of proppants using a combination of field data, and data analysis tools

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## PROFESSIONAL ACTIVITIES

- Presented a poster at 2017 SME Annual Conference, February 2017 **Denver, CO**
- Presented a poster at the 2016 Energy Days (First Place), May 2016 **University Park, PA**
- Presented a research paper at NIOSH Ground Control Meeting, July 2016 **Morgantown, WV**
- Presented a research paper at the 2016 SME Annual Conference, February 2016 **Phoenix, AZ**
- Presented a research paper at 2015 SRA Annual Meeting, December 2015 **Arlington, VA**
- SIMTARS Hazard Identification and Risk Management Training, 2012 **Queensland, AU**

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## LEADERSHIP AND UNIVERSITY SERVICES

- Led winning team from Penn State in the IXL Innovation Winter Olympics **Boston, MA**  
wherein over 40 U.S. universities participated
- Served as a Board Member of Student Fee Board, Penn State **University Park, PA**
- Served as a member of Faculty Senate Committee on Student Life, Penn State **University Park, PA**
- Served as a Board Member of the University Library Advisory Board, Penn State **University Park, PA**
- Served as a Council Member of the Graduate School Council, Penn State **University Park, PA**
- Served as the Treasurer of the Graduate Student body at Penn State **University Park, PA**

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## ACHIEVEMENTS AND AWARDS

- Syd S. and Felicia F. Peng Ground Control Scholarship, February 2017 **Denver, CO**
- First Place, Winner of Best Poster Competition, Energy Days, May 2016 **University Park, PA**
- First place, Winner of IXL Fall Innovation Winter Olympics, May 2016 **Boston, MA**
- UCA Young Members Scholarship, April 2016 **San Francisco, CA**
- SME Environmental Division Scholarship, February 2016 **Phoenix, AZ**
- Student Travel Award, Society for Risk Assessment, December 2015 **Arlington, VA**
- Best Employee Award, Coal India Limited, November 2014 **Odisha, IN**
- Institute Gold Medal, September 2011 **Karnataka, IN**
- Hutti Gold Mines Medal, September 2011 **Karnataka, IN**

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## SOFTWARE PROFICIENCY

- Microsoft Office
- Microsoft Excel Solver
- Minitab
- GAMS
- R programming, and
- MATLAB

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## INTERESTS

- Advocate for mitigating student poverty
- Acrylic Painting, and Pencil Sketching
- Cricket, Pool, and Bowling