

ASTHA AGARWAL

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AGRICULTURAL ENGINEER - leveraging 8+ years of experience

Enterprising and methodical Agricultural Engineer experienced extensively in the design and development of agro-based gears, agriculture-related industrial equipments, and agriculture-related infrastructure. Acquainted with various modeling techniques for research and analysis of industry trends and adept with adequate knowledge for their effective application.

PROFILE SUMMARY

- Able to design and develop Agro-based Machinery with sophistication and precision.
- Acquainted with the latest research and developments in field hydrology, soil, and land use management on nutrient cycling.
- Prepares comprehensive reports, and coordinates with the homologation agencies for field trials and certifications.
- Experience in leading product development projects in one or more crop protection portfolios.

CORE COMPETENCIES

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|----------------------------|---------------------------------|---------------------------------------|
| ▪ Quality Control Analysis | ▪ Project Plans & Documentation | ▪ Operations Analysis |
| ▪ Technological Aptitude | ▪ Data collection | ▪ Geographic information system (GIS) |
| ▪ Operation Monitoring | ▪ Water Conservation | ▪ CAD software |

PROFESSIONAL EXPERIENCE

Tata Steel Foundation, Noida

Jan. 2019 – Jun. 2022

Agricultural Engineer

- Execute the development of new air vehicles, from initial concept through deployment.
- Act as a resource and subject matter expert for aircraft engineering teams
- Develop air vehicle CONOPs, conceptual designs, and configuration layouts by balancing performance implications from different subsystems (aero, structures, propulsion, avionics, and payloads)
- Execute aircraft, airframe and subsystem detailed design and fabrication as required.
- Support system test by developing sub-system and system level ground and flight test plans to efficiently and safely expand the flight envelope and validate performance requirements.
- Grow and strengthen key team skill sets to enable future air vehicle development programs.
- Develop aircraft design and test methodologies and best practices to enable scaling development capabilities to larger, more complex air vehicles.

National Agro-Industry, Punjab

Aug. 2015 – Dec. 2018

Agricultural Engineer

- Assisted in the design and development of agricultural-related machines including Harvesters, ATVs/UTVs, and other tractor attachments.
- Contributed as the technical support within the agro-based infrastructures development team, which managed the construction of infrastructures like farms, warehouses, dams, and water reservoirs.
- Strengthened the planning and development of drainage, irrigation, and flood and water control systems.
- Effectively communicated within the team with employers and colleagues.

ACADEMIC CREDENTIALS

Education – M. Tech in Agricultural Engineering, IARI New Delhi - Indian Agricultural Research Institute 2015

B. Tech in Agricultural Engineering, IIT Kharagpur, 2013

Certificates – Agricultural Project Management

Computer Skills – C/C++, Fortran, Java, ProEngineer, Unigraphics, MATLAB, Mathematica, Windows, Unix/Linux

PERSONAL DOSSIER

- **Languages Known:** English, & Hindi

~References and other documents available upon request ~