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| Profile SUmmary  * Product Engineer with 3+ years of experience in product design, development, and prototyping. * Regularly use and operate 3D printers, laser cutting machines, panbrake press, and power tools. * Certified SolidWorks Professional, Certified Sheetmetal, Weldments and Drawings Professional. * Certified Kuka Robot Programming 2. Ability to work with cobots – UR10e, TM12, TM14. * Master’s degree specializing in Product Design and Additive Manufacturing. * Key Skills – Design Thinking, DFX Principles, Solidworks (CAD and Simulation), programming (C++ and python) | |
| EXPERIENCEProduct Engineer (Mechanical) | ManuFutures DEC 2022 – Present  * Spearheaded 2 data capture and consolidation activities for large production companies to determine project scope for effective and strategic execution. * Engaged with stakeholders to identify industry gaps and needs to create project scope, resource utilization plan and project costs. Learned to implement project management skills for 2 small projects. * Took ownership of 6 projects by successful implementation of design principles to develop prototypes or minimum viable products. Utilized rapid prototyping technologies - 3D printing and laser cutting. * Created CAD models in SolidWorks, implemented configuration-based design, decided appropriate manufacturing technologies and materials for products, while taking make-or-buy decisions. * Implemented design for manufacturing principles for sheet metal fabrication, 3D printing and injection moulding. * Conducted DFMEA and static FEA simulations for design improvements and validation. * Documented and created several reports for closing out of projects with clients. * Utilized specialist equipments - 3D printers, sandblaster, laser cutter, bending machine, dyeing machine, cobots to manufacture and prototype according to tenant requirements. * Worked to develop good relations with vendors, suppliers, clients and other departments within Deakin.  Design Engineer | Dispotronics Mar 2021 – DEC 2021  * Formulated product specifications based on clients’ sensor requirements to increase company turnover by 150%. * Reverse Engineering and CAD modelling using Siemens NX of existing product range of 20+ products for catalogue creation. * Design and development of custom wheelchair design for senior bedridden folk, providing ideal user experience. * Methodical creation of engineering change documents, PPAP, PFMEA and DFMEA.  Simulia Developer | Dassault Systemes Jul 2019 – FEB 2021  * Worked in a 9-member team to develop solution for optimizing CAD model with Numerical Methods of Optimisation. * Utilized Object Oriented Programming using Model View Controller software architecture in C++. * Acted as point of contact and mentor for all-girls high school in design engineering competition hosted by Dassault | |
| EDUCATIONMaster of Engineering | Deakin University Nov 2020 – Oct 2022  * Dual Specialization in Product Design and Additive Manufacturing. * Deakin Vice Chancellor’s Professional Excellence Scholar, with 100% meritorious scholarship. * Postgraduate Student Award and Postgraduate Student Project Excellence Award. * 30-day internship at Conflux Technologies, focused on quality control testing of Metal 3D Prints and improvements in print quality. | |
| Bachelor of Engineering (Mechanical) | Pune University AUG 2015 – JUN 2019  * Graduated with first class distinction and 8.5 GPA. * 30-day internship at Atlas Copco Gecia, performed multi-iteration vibration analyses to study resonance during machining. * Conducted multi-variate Design of Experiments to scientifically provide an eco-friendly alternative for detergent (utensil). Designed innovative sheet-metal machinery for large scale production with a B2C business model. National top 12 design finalist amongst 1000 projects in Aakruti 2019. Presented at Solidworks World 2019 at Dallas, Texas. * Designed and manufactured an ATV for intercollegiate racing and endurance-based competition BAJA 2017.Implemented Ackermann steering mechanism for the car. | |
| SKILLS  * Certified Forklift Operator (WorkSafe Victoria) * Certified Solidworks Professional * Certified in programming for Kuka. * Trained to operate 3D Printers, Laser cutter, CNC Mill, Cobots. | * Project Management * Time management * C++, Python |
| ACTIVITIES  * Excited participant for any sports, mostly basketball, table tennis, volleyball. * Beginner surfer, hiker and enthusiastic swimmer * Voracious reader | |
| REFERENCESGlynn Atkinson ([glynn.atkinson@deakin.edu.au](mailto:glynn.atkinson@deakin.edu.au))Senior Manager, ManuFutures, Deakin UniversitySiva Krishnan (siva.krishnan@deakin.edu.au)Associate Head of School of Engineering, Deakin University | |