**Sneh Acharya**

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**Education**

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| **Bachelor of Science in**    **Software Skills** | **Computer Science** | The *University of Texas at Arlington* Expected May 2025   * UTA Academic Scholarship (All 4 years) * Freshman Honor Roll (Fall 2021) |
| **Languages:** | C/C++, Java, JavaScript, Python, HTML, CSS, PLC, Visual Basic, PHP |
| **Frameworks/Other:** | Cypress, Selenium, Bootstrap, WordPress |
| **Operating System:** | macOS, Windows, Ubuntu |
| **Certification:**  **Skills:**  **Language:**  **Work Experience** | Additive Manufacturing, Mechanical Design, Robotics, and Automation  Adobe Photoshop, Adobe Premiere, Adobe Illustrator, SolidWorks, AutoCAD, ROS, Unity  Fluent in English, Hindi, and Nepali |

# HERACLEIA HUMAN-CENTERED COMPUTING LAB (UTA) (http://heracleia.uta.edu)

*UNDERGRADUATE RESEARCHER March 2022 – Present*

* Making a platform for data collecting using ROS and the Summit XL robot to collect and process sensor data for autonomous navigation
* Building virtual settings with the Unity game engine to simulate investigations involving human-robot interaction
* Working on Smartphone-Based IoT-Controller Framework for Assisting the Blind in Human-Robot Interaction
* Working with Human-Robot Interactive System using Hand Gestures and Smartphone-based IoT-Controller Framework.

# MSV SERVICE SOLUTIONS (<https://www.moonlightsvc.com>)

*WEB DEVELOPER June 2021 – Present*

* Conducted preliminary discussions with clients regarding the design and functionality of the website.
* Reviewed designs and features as presented by the team.
* Leads off testing of all websites.
* Evaluated the state of readiness of websites before turning over the project to the client.

**DEEPAIN'S MOMENTOGRAPHY (**[**http://www.deepainsmomentography.com**](http://www.deepainsmomentography.com)**)**

*WEB DEVELOPER July 2020 – September 2021*

* Created solutions for identified problems or bugs.
* Develops and validates test routines to ensure the quality of the external and internal interface.
* Executed assignments with the use of web applications, scripts, and programming languages such as HTML, CSS, JavaScript,

and APIs.

* Oriented clients on how to manage websites.

# Projects

# Assembly Line | Robotics and Automation | *CAD, PLC, SOLIDWORKS, ROBOCELL, C Programming*

Made a conveyor system to help owners and operators increase the operational efficiency of their facilities while improving

tenant comfort levels

* Program robot and PLC with appropriate use of safety devices
* Interpret electric circuits used in a robotic work cell and developed a basic computer program to control

robots and peripherals

* Organize and describe data using matrixes
* Solve problems using proportions, formulas, and functions
* **Smartphone-Based IoT Framework for Assisting the Blind in Human-Robot Interaction |**

**Heracleia Human-Centered Computing Lab (**[**http://heracleia.uta.edu**](http://heracleia.uta.edu))

Smartphone-based IoT-controller framework is proposed to assist visually impaired users with effective interaction with robots in a human-robot interaction scenario. The user can access a smartphone application through speech, give commands for a pick and place task, and the robot performs the task based on the user’s speech command. This preliminary work aims to implement the general controller framework and test the integration with the robotic system.