**TEAM DESCRIPTION PAPER (TDP)**

**AUTONOMOUS ROBOTICS –JEWEL HEIST**

**Team Name:**

**Institute :**

**City :**

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|  | **Team Leader** | **Team member 1** | **Team member 2** | **Team member 3** | **Team member 4** | **Team member 5** |
| **Name** |  |  |  |  |  |  |
| **Institute ID** |  |  |  |  |  |  |
| **Mobile no** |  |  |  |  |  |  |
| **Email ID** |  |  |  |  |  |  |

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| 1. **Briefly explain the strategy that will be employed by your team to complete the mission right from start of the game to its end.** |

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| 1. **Explain the algorithm for robot A (depending on what you are using either image processing or electronics) how you are going to use to solve the grid. Write the pseudo code.** |

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| 1. **Give a detailed description of the working mechanism of the robot M (Mechanism for picking and placing the cubes. Also mention as to how will you stack the white cubes. Add every mechanism separately with proper divisions.)** |

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| **4. Explain briefly the electronic circuitry involved in case of robot A. Write briefly about the number of sensors being used and their purposes. (if applicable). Mention if any readymade microcontroller developments boards are being used. Give the URL or attach a document about the product details/ specification page of the board being used.** |

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| **5. Attach the images and drawings for robot A and robot M from different views. In case of robot M attach images explaining the mechanism.** |

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| **6. Attach videos of the robot A and robot M solving the grid. Upload the videos on Youtube and attach the link to it below. The robots need not solve the entire problem statement in the video. A 1-minute video displaying the robots performing a certain task/ part of the problem statement is sufficient Add any additional information you would like us to know.** |

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| **7. If you are using an on board camera, give a detailed explanation on how do you plan to use it. (Applicable only for teams doing image processing)** |

**IMPORTANT NOTES**

**1)     The space below the question is NOT indicative of the length of the reply expected. Please make your answers as detailed and clear as possible.**

**2)     No field is to be left blank.**

**3)     All TDPs to be submitted in .pdf format only.**

**4)     File to be named as “JewelHeist\_teamname.pdf” e.g. “JewelHeist\_iitm.pdf”.**

**5)     Multiple TDP submissions will result in disqualification of the team and its participants.**

**6)     Last date for TDP submission is 30/10/2014 by 11:59 p.m.**

**7)     Coordinators have the right to select and reject any TDP.**

**8)  If selected in the TDP round, team members as well as the design can be changed only after intimating the coordinators in advance.**

**9)  Decision of coordinators is final and binding on all participants in case of discrepancies.**

**10)  All queries to be mailed to**[**robotics@shaastra.org**](mailto:robotics@shaastra.org)**with the subject as “Auto\_Query- <query description>”**