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Perception - Deep Learning Algorithm Engineer, Autonomous Driving (Multiple roles/Levels)

Newark, CA / Digital / Full-Time

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At Lucid, we set out to introduce the most captivating, luxury electric vehicles that elevate the human experience and transcend the perceived limitations of space, performance, and intelligence. Vehicles that are intuitive, liberating, and designed for the future of mobility.

We plan to lead in this new era of luxury electric by returning to the fundamentals of great design – where every decision we make is in service of the individual and environment. Because when you are in

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Come work alongside some of the most accomplished minds in the industry. Beyond providing competitive salaries, we're providing a community for innovators who want to make an immediate and significant impact. If you are driven to create a better, more sustainable future, then this is the right place for you.

We are currently seeking a perception algorithm engineer for our ADAS/Autonomous Driving team. This position requires an experienced professional with strong programming skills and solid knowledge of state-of-the-art perception algorithms.

As a member of the Lucid Motors perception team, you will research, design, implement, optimize and deploy deep learning models which will push the state of the art in perception algorithms. Doing literature reviews for a particular computer vision problem, implementing models, modifying algorithms to improve their performance. In addition, you will play a pivotal role in the design and implementation of the overall data and training infrastructure.

This role is located on-site at Headquarters in Newark, CA.



Role Responsibilities:

- Work in a world-class ADAS/Autonomous Driving team
- Design the camera/lidar perception algorithm for Lv.2/3 autonomous driving systems. Building neural networks. Construct and develop cutting edge deep learning algorithms for computer vision tasks, 2D/3D object detection,

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- Work closely with other teams to ensure a seamless and robust implementation
- Test, release, and launch the perception algorithm into the Lucid production programs
- Support the production validation and verification of the perception algorithms using prototype vehicles, pre-production vehicles
- Propose cutting edge S/W algorithms for the future autonomous driving systems

Required Qualifications:

- Bachelors in the areas of Computer Engineering, Electrical Engineering, Automotive Engineering, Mechanical Engineering
- 5 years of work experience
- Strong theoretical foundations and knowledge with state-of-the-art works in deep learning algorithms on object detection, tracking, segmentation etc.
- Strong experience with Python programming language with an emphasis on good software engineering practices.
- Comfortable with reading, debugging and modifying large codebases for a particular deep learning model
- Experience with Pytorch or other ML frameworks like TensorFlow, MXNet
- Design and construct evaluation pipelines to unit-test your ML model through a multitude of varying conditions and environments
- Excellent communication skills and good team player



Preferred Qualifications:

- Masters minimum in the areas of Computer Engineering, Electrical Engineering, Automotive Engineering, Mechanical Engineering
- At least 3 years of work experience or a Ph.D.
- Advanced degrees preferred
- Experience writing efficient, clean code in C++
- A practical hands-on approach to complement the theoretical knowledge and creativity required to solve Autonomous Driving
- Experience testing complex perception systems
- Experience in working in agile development teams
- Experience in component and system integration, testing and verification on system and vehicle level

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The compensation range for this position is specific to the locations listed below and is the range Lucid reasonably and in good faith expects to pay for the position taking into account the wide variety of factors that are considered in making compensation decisions, including job-related knowledge; skillset; experience, education and training; certifications; and other relevant business and organizational factors.

California (Bay Area) - \$127,000 • \$165,000 per year

Additional Compensation and Benefits:

Lucid offers a wide range of competitive benefits, including medical, dental, vision, life insurance, disability insurance, vacation, and 401k. The successful candidate may also be eligible to participate in Lucid's equity program and/or a discretionary annual incentive program, subject to the rules governing such programs. (Cash or equity incentive awards, if any, will depend on various factors, including, without limitation, individual and company performance.)

Lucid maintains your privacy according to its [Candidate Privacy Notice](#). If you are a California resident, please refer to our [California Candidate Privacy Notice](#).

At Lucid, we don't just welcome diversity - we celebrate it! Lucid Motors is proud to be an equal opportunity workplace. We are committed to equal employment opportunity regardless of race, color, national or ethnic origin, age, religion, disability, sexual orientation, gender, gender identity and expression, marital status, and any other characteristic protected under applicable State or Federal laws and regulations.



To all recruitment agencies: Lucid Motors **does not** accept agency resumes. Please do not forward resumes to our careers alias or other Lucid Motors employees. Lucid Motors is not responsible for any fees related to unsolicited resumes.

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