Automotive Israel-Japan Virtual Event

APRIL 12-13, 2021

Ministry of Economy and Industry
Foreign Trade Administration

駐日イスラエル大使館 経済部
Israel Economic & Trade Mission in Japan

駐日大使館経済部について

イスラエル大使館経済部は日本全国において多彩な活動を展開しています。その基本的な任務は、イスラエルと日本両国間における貿易ならびに各種商取引の振興と経済協力であるとともに、研究開発における二国間の相互協力の推進です。この任務を達成する為に、イスラエル大使館経済部は日本とイスラエルにおける様々な商工業活動を立ち上げ、組織化し、これに参加して参りました。

当経済部は日本経済界がイスラエルとの間に効果的な連帯関係を確立する為の支援を積極的に行います。これと同時に当経済部では、日本市場について豊富な経験を積み、理解を深め、日本国内でのネットワークを構築し、さらには、部内に多言語グループを擁する事で、イスラエル企業の日本におけるビジネスチャンスを多角的に支援しております。

またイスラエル大使館経済部は、イスラエル企業による日本での見本市出展活動や各種商業目的イベントへの参加を支援、奨励するとともに、日本企業に対して、イスラエル視察団への参加や、現地展示会やその他の商業イベントへの出展を推奨しています。

•**Mr. Daniel Kolbar ダニエル・コルバー**
•**Minister 経済公使**
•**Head of Economic & Trade Mission**
•**Embassy of Israel in Japan**
•Web (Japanese): www.israel-keizai.org

The Israel Export and International Cooperation Institute is your premier gateway for doing business with Israeli companies.

On behalf of the Israel Export Institute, I would like to invite you to review this catalog of leading Israeli companies that will participate in the Israel-Japan Automotive event in April 2021.

Although Israel does not engage in large scale vehicle manufacturing, over the past few years it has turned into a global autonomous driving and smart transportation lab. Israeli companies, known for their innovation, are global car industry leaders.

The event will serve as a platform for networking, business leads, partnerships and investments opportunities. Participating companies will get the opportunity to engage and develop valuable business connections with important players in Japan, a leading market in the Automotive sector.

Ms. Karin Chen

Head of Sectors– Automotive & Smart Mobility; Industry 4.0 | Int'l Organizations

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ADASKY

Far Infrared Sensing Solution for Autonomous Vehicles

https://www.adasky.com/

About the Company

ADASKY, an Israeli startup located in Yokne'am, is the leading developer and manufacturer of intelligent thermal sensing technologies for automotive, smart cities and more. ADASKY was established with the purpose of solving the problem of perception gaps left by other sensors in advanced driver-assistance systems (ADAS) and autonomous vehicles (AV), by way of intelligent thermal cameras. Making cars see and function better in challenging visibility conditions (such as darkness, rain, snow etc) and safer to drive at all levels of autonomy. As ADASKY evolved, it began developing advanced thermal imaging solutions to address additional mobility challenges, such as smart city roadway safety systems (V2I) for all road users, and elevated body temp detection systems for public places to help mitigate the spread of COVID-19.

Adaskyは、高解像度のLWIRサーモグラフィソリューションを開発・製造しています。

ADAS/AVソリューションとスマートシティインフラ（V2I）のために、自社でエンド・ツー・エンドで製造し、車両の安全システムに貢献します。

Business Benefits

ADASKY revolutionized the thermal sensing industry by creating end-to-end, the smallest, most intelligent cameras in the market, at a price that anyone can afford, with the goal of making safe mobility accessible to all drivers and pedestrians alike.

video

Strategic Partners

Kyocera

Arbe

4D Imaging Radar for Autonomous Driving

https://arberobotics.com/

arbe

About the Company

Arbe, the provider of next-generation 4D Imaging Radar Chipset Solutions, is leading a radar revolution, enabling truly safe driver-assist systems today while paving the way to full autonomous-driving. Empowering automakers, tier-1 companies, autonomous ground vehicles, commercial and industrial vehicles, and a wide array of safety applications with next-generation sensing and paradigm-changing perception. Arbe imaging radar is 100 times more detailed than any other radar on the market and is a mandatory sensor for L2+ and higher autonomy. Arbe solution includes an RF chipset with the largest channel array in the industry, a groundbreaking radar processor chip, and AI-based post-processing. Founded in 2015, Arbe has secured $70 million from leading investors, including Catalyst CEL, Canaan Partners Israel, iAngels, 360 Capital Partners, AI Alliance (Hyundai, Hanwha, SKT), BAIC Capital, MissionBlue Capital, O.G. Tech Ventures, Maniv Mobility, Taya Ventures and OurCrowd. Arbe is based in Tel Aviv, Israel, and has offices in the United States and China.

次世代イメージングレーダーチップセットソリューションを提供するArbeは、レーダー革命をリードし、今日の真に安全な運転支援システムを可能にすると同時に、完全な自律運転への道を切り開いています。Arbeの技術は、詳細な4D画像を生成し、長距離かつ広い視野で方位角と仰角の両方で2Kの高解像度で物体を分離、識別、追跡し、AIベースの後処理とSLAM（同時定位とマッピング）で補完します。Arbeの特許技術は、自動車メーカーやTier1サプライヤーにとって、市場に出回っている他のレーダーの100倍の詳細度を持つ次世代レーダーの開発を支援します。

video

Business Benefits

Next-generation 4D Imaging Radar Solution, enabling high-resolution sensing for ADAS, autonomous vehicles, and commercial & industrial vehicles.

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Aurora Labs

Self-Healing Software for Connected Cars

https://www.auroralabs.com/

About the Company

Aurora Labs has reinvented software quality management, remote diagnostics, and over-the-air (OTA) updates for the automotive and IoT industries to improve transparency and lower costs.

Aurora Labsは、自動車およびIoT業界向けのソフトウェア品質管理、リモート診断、OTA（Over-the-Air）アップデートを再定義しました。機械学習アルゴリズムを使用してソフトウェアの機能や動作のリスクや変化を分析するAurora LabsのLine-Of-Code Behavior™技術は、ユーザー体験を向上させ、ソフトウェアの品質、安全性、セキュリティのコストを削減します。

Business Benefits

Lowering the costs for remote maintenance and specifically for over-the-air (OTA) updates.

video
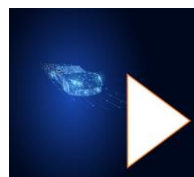
Autofleet

Vehicle as a Service

https://www.autofleet.io/

About the Company

Autofleet provides a software platform to optimize fleets (rental/leasing companies, car-share operators, delivery and logistics fleets, taxi and public transportation, etc.). The platform automates fleet management and operational tasks, while also launching new on-demand transportation and delivery business models.

Autofleetはフリート向けのVehicle as a Serviceプラットフォームを提供いたします。フリート事業者が既存のオペレーションを最適化し、新しいモビリティ・ビジネスモデルを立ち上げることで、稼働率の最大化、オペレーションチームの効率化、車両のダウンタイムの削減を実現します。このプラットフォームは、カーシェアリング事業者、OEM、公共交通機関、エネルギー公益事業者にとり、フリートが使われていない時間を有効利用するものです。これにより、フリートは既存のオペレーションを最適化し、新たなオンデマンドモビリティのビジネスモデルを開拓することができます。このプラットフォームは、需要予測、ダイナミックな価格設定、最適化された車両サービス、自動化されたフリート/デフリーティング、リアルタイムでの需要と供給のマッチングの最適化のために機械学習を使用しています。
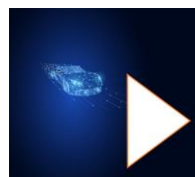
Business Benefits

Automate fleet management, maximize utilization, launch new mobility services.

Strategic Partners

Autofleet optimizes tens of thousands of vehicles in over 12 countries, with some of the largest fleets in the world, including Avis Budget Group, Zipcar, Keolis, and Suzuki.

video

Bright Way Vision

Advanced Vision and Ranging Sensors

https://www.brightwayvision.com/

BRIGHT
WAY
VISION

About the Company

Founded in 2011, Bright Way Vision develops and markets GatedVision technology solutions. Its automotive product, VISDOM, is a market-ready enhanced-vision solution for the automotive and transportation industries. Bright Way Vision's automotive camera system works in all weather conditions, and is based on proprietary and patented GatedVision, active gated-imaging technology. It delivers a continuous clear image in all weather and lighting conditions, enabling reliable object detection and road visibility, thus improving the reliability of any sensor suite and regaining road safety where vehicles today simply can't see.

アクティブゲーテッドイメージング技術をベースに、自動車業界向けに昼夜を問わず、全天候型（過酷な天候を含む）の視界を強化します。BWVは、ゲーテッドイメージング技術を活用することで、ドライバーの前方視界の範囲を拡大します。また、夜間や悪天候下でのパフォーマンスを向上させるビジョンシステムを強化することで、高度な自動運転を可能にします。この技術は、カメラに内蔵されたゲーテッドセンサーとゲーテッド光源で構成されており、ヘッドランプや DRL (Daytime Running Light)、FPL (Front Positioning Light) などに組み込まれています。

Business Benefits

Bright Way Vision's technology is suitable for the widest range of L2 to L5 vehicle configurations. Find out how VISDOM can help you leverage your market and vehicle type. VISDOM enables nonstop business continuity 24/7 in all visibility conditions and weather conditions in numerous markets, including maritime, trucks, trains, and more.

video
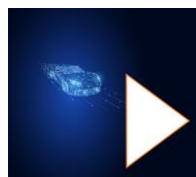
C2A Security

In-Vehicle, End-to-End Cybersecurity Protection

https://www.c2a-sec.com/

About the Company

C2A Security is a trusted end-to-end automotive cybersecurity solutions provider. Its embedded cybersecurity solutions and cybersecurity lifecycle management platform empower the automotive industry with visibility and control over the bespoke solutions needed to protect today and tomorrow connected vehicles. Armed with the understanding that cybersecurity is a process, not a product, C2A holistic approach includes a comprehensive, multi-layered technology suite scalable enough for the entire vehicle lifecycle. C2A products minimal footprint and compute resources consumption give them the flexibility to fit into any automotive ECU. With market neutrality, complete fluency in the needs of the automotive industry and ease of integration, C2A is redefining the automotive cybersecurity ecosystem as the sole provider of the most flexible, comprehensive and transparent cybersecurity solutions on the market.

C2A セキュリティ は、信頼性の高いエンドツーエンドの自動車用サイバーセキュリティソリューションプロバイダです。同社の組み込み型セキュリティソリューションとライフサイクル管理プラットフォームは、今日および将来のコネクティッドカーを保護するために必要なカスタムメイドのソリューションを可視化し、制御することで、自動車業界を支援します。C2A は、車載サイバーセキュリティに対する真に総合的なアプローチを確立しました。C2A は、計画段階から車載組み込みセキュリティ、車両のセキュリティライフサイクルの継続的な管理に至るまでのソリューションを提供することで、OEM およびティア 1 サプライヤを支援しています。この独自のアプローチにより、車載サイバーセキュリティ保護のための包括的で多層的なソリューションを自動車業界に提供しています。C2A製品のフットプリントと計算リソースの消費は最小限に抑えられているため、どのような自動車ECUにも柔軟に組み込むことができます。C2Aは、市場の中立性、自動車業界のニーズに完全に対応し、統合が容易であることから、市場で最も柔軟性が高く、包括的で透明性の高いサイバーソリューションを提供する唯一のプロバイダーとして、自動車のサイバーセキュリティエコシステムを再定義しています。

Business Benefits

Clients benefit from C2A white box approach, which empowers OEMs and Tier 1s with unparalleled visibility and control over bespoke solutions. C2A solutions are hardware and software agnostic. They carry a minimal footprint and compute resource consumption, making them easy to integrate and flexible enough to fit into any automotive ECU with negligible performance impact.

video

Click-Ins

AI SaaS automated vehicle damage inspections and assessment platform
https://www.click-ins.com/

About the Company

Automated, AI-powered vehicle inspections with a click of a camera-phone

Click-Ins' is the most advanced AI-based automated vehicle inspection solution on the market, allowing automotive and insurance companies to automatically detect, analyze, and process external vehicle damages at an unprecedented level of accuracy, consistency, and speed.

Click-Ins provides full, customizable damage reports in under a minute, without the need for special equipment or trained personnel - just an end-user with a camera-phone (or any other type of sharable image). As our AI is pre-trained, there's no need for training on customers' proprietary data or months of implementation - simply plug and play.

Our software guides end-users through the photo-taking process, leveraging VR and instant feedback to ensure the quality and content of the images, enabling standardized documentation for future use. Additionally, Click-Ins' automatically compares new and existing damage reports, excluding pre-existing damage and improving claims settlement.

Click-Ins has partnered with cost estimation, fleet management and telematics platforms worldwide, providing an end-to-end solution for automotive companies - for every touchpoint and exchange of hands.

クリックインズは、次世代型AI SaaS自動車損傷検査・評価プラットフォームで、保険会社や自動車メーカーの信頼性向上と効率化を支援するとともに、顧客体験を向上させます。同社は、独自のシミュレーションデータに基づいて自己学習したAI SaaS技術を開発し、あらゆるフロントエンドとのシンプルかつ簡単な統合を可能にし、顧客のプラットフォームでの業務自動化を実現しています。クリックインズのチームは、テクノロジー、自動車、保険分野の高度な専門家で構成されており、経験豊富なビジネスマネジメントとともに、そのノウハウを同社にもたらしています。

Business Benefits

Click-Ins' is the most advanced AI-based automated vehicle inspection solution on the market, allowing automotive companies to automatically detect, analyze, and process external vehicle damages at an unprecedented level of accuracy, consistency, and speed.

Strategic Partners

Sixt, Avis, Spear Head, Attestiv, Sapiens and others

Cognata

Driving Validation Platform

https://www.cognata.com/

About the Company

Cognata is a leading global supplier of large-scale automotive simulation for the Advanced Driver Assistance System (ADAS) and autonomous vehicle markets. Working with leading automotive technology companies around the world, Cognata's end to end simulation platform accelerates time to market by delivering simulation solutions for the entire automated driving product lifecycle, from training to testing to deployment.

Cognata delivers large-scale simulations to responsibly accelerate the time to market of automated driving. Deploying safe and reliable automated driving systems requires training and testing over billions of miles and in a near-infinite number of corner cases. Time, cost, and safety make physical testing an impossible standalone solution. Simulation is an essential complement. Large-scale simulation is the core of Cognata. Our commercially deployed solution provides ADAS and autonomous vehicle developers a platform of unparalleled realism and scale for training and testing their automated driving technology over billions of virtual miles and custom scenarios safely and at a fraction of the time and cost of physical testing.

Cognataのソリューションは、ADASおよび自律走行車市場向けの大規模な自動車シミュレーションおよび合成トレーニングデータです。トレーニングからテスト、実際の展開まで、自動運転製品のライフサイクル全体を対象としたシミュレーションソリューションを提供することで、市場投入までの時間を短縮するエンドツーエンドプラットフォームです。2つの主要製品の詳細はこちらをご覧ください。

1. 大規模シミュレーション 自律走行のためのAIベースのシミュレーションと検証

およびADASを製品のライフサイクル全体にわたって活用することができます。このプラットフォームは、自動運転システムを徹底的に訓練、テスト、展開するための3D環境、アセット、アクター、シナリオ、分析機能のライブラリを提供します。

2. 合成トレーニングデータ。機械学習やディープニューラルネットワークは、トレーニングや検証のために膨大な量のデータを必要としますが、規模が大きくても、生のデータ、反復的なデータ、不正確にラベル付けされたデータでは結果は得られません。

Cognataは、既存のデータを補完し、ギャップを埋め、バイアスのかからない多様で現実的なデータセットをオンデマンドで提供するために、詳細な仕様に合わせてデータを生成します。

Business Benefits

AV & ADAS validation and regulation, speeding up time to market.

Strategic Partners

Microsoft, Nvidia

ContinUse Biometrics

Biometric Sensors

http://www.cu-bx.com/

About the Company

ContinUse is developing an offering based on its revolutionary sensing technology for the automotive sector, providing the capacity to monitor vital signs driver stress and comfort levels.

ContinUse Biometrics社は、バイタルサインを含む、身体的接触なしで遠隔地の人々から医療グレードの生理学的情報をキャプチャする独自の光センシングユニットとデータプラットフォームを開発しています。同社は現在、自動車などの臨床および非臨床の両方で、多くの臨床試験と実地試験を実施しています。 自動車分野では、ContinUse BiometricsはOEMやTie1と提携し、自動車向けのスマートコンフォートセンシングや健康センシングソリューションを提供しています。

Business Benefits

CU-BXâ€™s solution detects a wide array of physiological and stress indicators including those key for heart failure prevention. Our unique solution includes real-time measurements and trend analysis, can be combined with driver monitoring systems (DMS) and has been validated by key OEMs and Tier 1s.

Strategic Partners

Daimler, Continental ,Toyota Tsusho Corporation

DriveU

Open Connectivity Platform for Autonomous Vehicles

https://www.driveu.auto/

About the Company

DriveU provides a connectivity platform for teleoperations of Autonomous Vehicles. Our solution provides 4k video with sub 100msec latency. The platform can be provided as a turnkey solution or as software only. Our customers in USA, Europe and China are already using the solution on public roads as well as POC units in Japan.
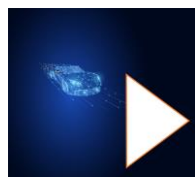
DriveUのオープンな接続プラットフォームは、複数のセルラーモデムを使用して自律走行車の遠隔操作を可能にします。4Kビデオ、オーディオ、高速データ、双方向制御のための高速、低遅延、非常に信頼性の高いリンクを提供します。DriveUは、世界中の3000社以上のお客様にご利用いただいているLiveU技術をベースにしています

Business Benefits

Enable high quality video with very low latency for teleoperations.

Simple to integrate. Re-use existing hardware.

video

Enroute

e-Commerce Layer for Mobility Services

ENROUTE

http://enroute.tech/

About the Company

Enroute has developed a personalized, location-based commerce and loyalty plug-in for mobility companies. Enroute's solution is embedded in ride-hailing and mass transit mobility apps for companies such as Uber, Lyft, JR, and others. The service allows passengers to earn rides for FREE as they shop, interact, click, and collect items from locations close to their destination. Enroute's smart algorithms create a unique experience for passengers based on the ride details and the user profile. Enroute's location-based commerce layer allows passengers to shop online and collect the orders from shops next to their destination or along the route. This capability is supported by unique data-driven algorithms that tap into inventory systems in real-time.

Enrouteは、モビリティ企業向けにパーソナライズされた位置情報ベースのコマースおよびロイヤリティ・プラグインを開発しました。Enrouteのソリューションは、Uber、Lyft、Deutsche Bahnなどの企業向けのライド・ハイリングや大量輸送のモビリティアプリに組み込まれている。このサービスを利用すると、乗客は目的地に近い場所で買い物をしたり、交流したり、クリックしたり、アイテムを集めたりすることで、無料のライドを獲得することができます。Enrouteのスマートなアルゴリズムは、乗車の詳細とユーザーのプロフィールに基づいて、乗客にユニークな体験を提供します。エンルートのロケーション・ベースのコマース・レイヤーでは、乗客はオンラインで買い物をしたり、目的地に隣接する店舗やルート沿いの店舗で注文を受けたりすることができます。この機能は、在庫システムをリアルタイムで利用する独自のデータ駆動型アルゴリズムによってサポートされています。

Business Benefits

Amid COVID-19, the mobility industry is facing a dramatic decline in ridership and revenues and needs to diversify its business model. Passengers are using their free time while commuting to shop online, in the UK alone 20% of all online shopping occurs during the morning commute and while mobility companies are allowing people to have free time, they are not monetizing that and miss on a huge opportunity to take a share of the eCommerce opportunity.

video
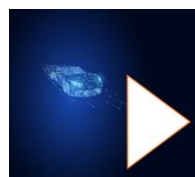
GreenRoad

GREENROAD™

Driver Safety and Performance Management for Fleets

http://www.greenroad.com/

About the Company

GreenRoad Technologies is a privately-held, venture capital-backed company with offices in the UK, Israel and the US and ~100 employees. The company's focus is improving driver safety as the key to helping fleets achieve 'incident and injury free' fleet operations, thereby saving life and limb, reducing accident-related and insurance costs, decreasing fuel consumption and maintenance expenses, and reducing overall risk. To this end, the SaaS company has created proprietary real-time driver coaching, engagement/gamification, monitoring and management technologies that have proven to be exceptionally effective in improving driver behavior. The GreenRoad Platform is currently used by major global corporations in the Oil & Gas/Hazardous Materials, Passenger Transport, Services, Utilities and Logistics industries. In addition, it works with major players in the Smart Mobility and Autonomous Vehicle industries.

Business Benefits

Use of GreenRoad solutions typically delivers the following quantifiable results:
* 50%+ reduction in accidents
* 60%+ reduction in crash-related costs
* up to 15% reduction in fuel consumption and related emissions
* 15% savings in insurance premiums

In addition, use of GreenRoad solutions delivers significant intangible benefits, including protection for brand, reduction in risk, enhancement of safety culture and empowerment of driver safety.

Strategic Partners

Partners: Pirelli/Prometeon Tyre Group - ST Engineering - Otonomo - Sapiens - QBE Insurance Company References: Schlumberger, Chevron Canada, Philip Morris, Dow Chemical, KMB, Costa Express, First Group, Stagecoach, Go-Ahead Group, Northern Gas Networks, Metroline, Coach USA, Big Bus, Iron Mountain, Securitas

GuardKnox Cyber Technologies Ltd.

Automotive Cybersecurity Hardware Solutions

https://www.guardknox.com/

About the Company

Guardknox is a technology and engineering company specializing in e/e products and solutions for the automotive market. GuardKnox is the automotive industry first Cybertech Tier supplier empowering OEMs, Tier 1 suppliers, and the aftermarket to deliver the next generation of software-defined and service-oriented vehicles. GuardKnox flexible and scalable solutions enable added connectivity, Zonal E/E Architecture, hosted applications, high-speed routing (including network recovery and service discovery functionalities), vehicle personalization, and security. The company pioneering approach to automotive innovation is inspired by technology from the aviation industry, providing GuardKnox with the experience needed to develop secure, high-performance computing solutions using a patented Service-Oriented Architecture (SOA). Founded in 2016, GuardKnox is based in Israel, with subsidiary locations in Stuttgart, Germany, and Detroit, Michigan.

GuardKnoxは、サイバーテック企業初のティアサプライヤーであり、自動車市場向けのエンドツーエンド製品とソリューションに特化したテクノロジー＆エンジニアリング企業です。GuardKnoxのセキュアで柔軟性と拡張性に優れたソリューションは、接続性の追加、ゾーン型エンドツーエンドアーキテクチャ、アプリケーションホスティング、高速ルーティング、車両のパーソナライズを可能にします。

Business Benefits

The GuardKnox founding team are veterans of the Israeli Air Force and brings decades of experience providing secure embedded platforms and solutions to the Israeli Air Force systems: Iron Dome, Arrow and Israeli F-35. The GuardKnox team has already experienced the challenge of integrating full connectivity into advanced moving platforms by providing new and ultra-fast communication networks, fast data-based systems with a patented Service-Oriented Architecture (SOA), and high-performance computingâ€"all with secure by design software and hardware development.

Strategic Partners

NXP; Palo Alto Networks; Green Hills Software; Xilinx;
DXC Technology Soc-E; RTI

video

Jungo Connectivity Ltd

Driver-monitoring Systems

About the Company

Jungo is an AI company which is part of the autonomous revolution. Jungo's CoDriver is an innovative camera-based driver monitoring solution for the ADAS market, enabling modern vehicle/driver interfaces by understanding the drivers, their intentions and activities, and providing smarter vehicle interactions.

Business Benefits

Based on state-of-the-art deep learning, machine learning and computer vision algorithms, that work together to provide the car with relevant and accurate information about the driver and occupants' behaviour. CoDriver, together with additional ADAS components through sensor fusion, helps cars make better decisions based on both internal and external to the vehicle cabin. Using CoDriver, cars can now know whether or not the driver is alert and paying attention to the road, and can tell if the driver is ready to take control of a vehicle in a semi-autonomous scenario. In a fully-autonomous experience, the car can get valuable information about the passengers and their overall condition while in the vehicle. Our software is hardware agnostic, meaning that the solution enables a cost-reduction to our customers. Our product demonstrates a full solution, end to end, from the vehicles to the cloud service. In addition, Jungo provides a complete software pipeline, enabling multiple car systems to use various outputs of the driver monitoring information (e.g: Safety systems, Autonomous systems for L3 handoff, HUD, personalized sound, infotainment …). In addition, CoDriver is able to detect multiple people in the car for Full-Cabin use cases.

Strategic Partners

Collaboration with Pioneer JP. Most are under NDA and cannot be disclosed.

video

Newsight Imaging

CMOS Image Sensor Chips

http://www.nstimg.com/

About the Company

Founded in 2016, Newsight Imaging develops advanced CMOS image sensor chips for 3D machine vision and spectral analysis. Newsight depth camera sensors for machine vision serve verticals such as Mobile, Robotics, Industry 4.0, Automotive Safety and Surveillance. Newsight solution is a low power and high sensitivity sensor for Tier 1 and OEM's, specially designed for longer distances while retaining high accuracy.

Newsight Imaging社は、視覚安全ソリューションの大量生産メーカー向けにカスタマイズ可能な、手頃な価格のCMOS（相補性金属酸化物半導体）イメージセンサベースのチップを開発しています。そのCMOSイメージセンサーチップに組み込まれた破壊的な技術は、解決不可能と考えられていたマシンビジョンの課題を克服します。

ニューサイトは、自動車市場のいくつかのユースケースに革新的で費用対効果の高いソリューションを提供しています。ソリッドステートLiDAR、AFS（アダプティブフロントライトシステム）、DMS（ドライバーモニタリングシステム）、スマートミラー、スマートパーキングなど。また、インダストリー4.0市場向けに正確で低価格のソリューションを提供しています。

Business Benefits

Newsight's unique enhanced Time of Flight (eTOFâ„¢) technology enhances the short distance iTOF and provides accurate depth sensing for longer distances even outdoors. The patented technology allows unparalleled distance measurement with less than 1% error rate. It supports a range of up to 100 meters outdoor, and a high frame rate of up to 100,000 fps. The eTOFâ„¢ LiDAR is based on Newsight Successful NSI1000. The NSI1000 CMOS chip has an embedded analog gain adjustment. The chipâ€™s fast response (up to 100fps) with Global Shutter and with configurable pixels results in clear images even during movements. Newsight offers hardware and software 3D vision solutions for automotive applications.

Strategic Partners

In the Automotive industry, Newsight shares an active POC with the ZKW group to develop Adaptive Front lighting System (AFS). We are also in contact with other major automotive companies worldwide.

video
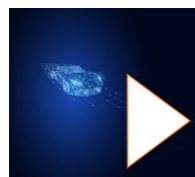
Otorize Ltd.

Cognitive Test to Prevent Impaired Driving

https://www.otorize.com/

About the Company

Otorize is the first proven solution for detecting cognitive impairment. Its a simple yet breakthrough app that can detect cognitive impairment in 5 seconds. It doesn't use membranes or filters, it is NOT intrusive, NO bodily fluids, NO HW needed, effective on all substances be it alcohol, cannabis or drugs. 100% digital. Otorize can help companies and managers prevent accidents caused by impaired operators in the workplace or DUI/DWI.

Otorizeは、認知障害を検出するための最初の実績のあるソリューションです。数秒で認知機能障害を検出できるシンプルで画期的なアプリです。それは、膜やフィルターを使用せず、体液等を摂取しなくても使用できます。勿論ハードウェアは必要ありません、アルコール、大麻、薬物等のすべての物質に反応します。100%のデジタルソフトウェアソリューションです。Otorizeは、企業や管理者が職場や飲酒運転/飲酒運転による事故を防止に貢献します。

Business Benefits

Preventing accidents caused by impaired operators, be it DUI, manufacturing, workplace, or anywhere we want to prevent the accident, avoid injury and safe lives.

We target three markets:

1- B2C - Parents of young drivers (20% of the 1.1M drunk driving arrests per year in the USA are young drivers 21 years of age or younger)

2- B2B - Corporations wanting to reduce and prevent accidents and manage their risk for the Fleets, Heavy Equipment Operators, and Workplace Safety (especially in the States/Countries which have legalized recreational cannabis)

3- B2B2C - OEMs, automobile and transportation as well as heavy equipment and such. Insurance companies can reduce their loss-ratio and improve their risk management, helping their bottom line.

Strategic Partners

Working with Ford Motor Company's Innovation Center, running a Pilot with The Enel Group, commercial representation in Israel with Uzeb LTD.

RFISee

4D Imaging Radar
https://rfisee.com/

CRFISEE

About the Company

RFISee is making affordable Phased-Array Imaging Radar for the Automotive market with 3-6X better detection capabilities, hence dramatically increasing safety for both ADAS and Autonomous vehicles. With a fully functional prototype, the exceptional capabilities are demonstrated in real-life scenarios.

世界初の4Dイメージングレーダー・オン・チップを開発し、自律走行車に次世代の耳と目を提供します。この高解像度で低コストなレーダーセンサーは、車の周囲の物体の3D位置と速度マップをリアルタイムに生成し、より安全な車と自動運転車のマスマーケットを可能にし、新しいモードとビジネスモデルで輸送業界に破壊的なイノベーションをもたらすでしょう。

Business Benefits

Any vehicle equipped with RFISee Radar technology will have a much more accurate 3D perception, hence making it a safer vehicle with Autonomous Driving capabilities in all weather and light conditions. Therefore, at a standard sensor cost, the vehicle is much safer and have higher automation.

video

Strategic Partners

- Car & Trucks OEMs

- Tier-1 Suppliers
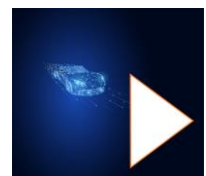
RideVision

Collision Avoidance Technology for Motorcycles

RIDEVISION

https://ride.vision

About the Company

Ride Vision is a unique Advanced Rider Assistance System (ARAS) tailored to meet the safety needs of riders. Alerting only in life threatening situations, Ride Vision provides real time 360° protection for any motorbike and any rider.Ride Vision is available as an aftermarket product for riders or as a technology platform for OEMs.

ライドビジョンは、ライダーの安全ニーズに合わせて調整された独自の先端ライダーアシスタンスシステム（ARAS）です。生命を脅かす状況でのみ警告を発するRide Visionは、どんなバイクやライダーにもリアルタイムで360度、全方位の保護を提供します。

Business Benefits

For riders:
Get extra safety on the road
React in time to danger
Be more alerted while keeping focus on the road
Auto recording for evidence/ fun
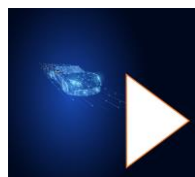Reduce insurance costs
Collect and Analyze Ride Data

For OEMs:
Offer an innovative safety element
Increase rider safety
Lead a motorcycle safety revolution
Integrate a ready made solution, fast and easy
Customize platform

Strategic Partners

Continental AG, Sara Assicurazioni

video

Upstream Security

Upstream

Cloud-based Security Platform for Connected and Autonomous Fleets

https://upstream.auto/

About the Company

Upstream Security offers the first cloud-based cybersecurity solution purpose-built for protecting connected vehicles and smart mobility services from cyber-threats and misuse. Upstream C4 platform fuses machine learning, data normalization and digital twin profiling technologies to detect threats in real-time using existing automotive data feeds. The result is unparalleled cybersecurity insights, readily available and seamlessly integrated into the customer cloud coupled with AutoThreat Intelligence, the first automotive cybersecurity threat feed in the industry. Upstream Security is privately funded by Alliance Ventures (Renault, Nissan, Mitsubishi), Volvo Group, Hyundai, Nationwide Insurance, Salesforce Ventures, CRV, Glilot Capital Partners and Maniv Mobility.

Upstream Securityは、クラウドベースの車載ビッグデータの力を活用して、コネクテッドカーの効率的かつ安全な運用を実現し、サイバー攻撃や悪用から保護します。アップストリームのC4プラットフォームは、機械学習、データ正規化、デジタルツインプロファイリング技術を融合し、既存の自動車データフィードを使用してリアルタイムで脅威を検出します。その結果、業界初の自動車用サイバーセキュリティ脅威フィードであるAutoThreat Intelligenceと連携し、顧客のクラウドにシームレスに統合された、他に類を見ないサイバーセキュリティの洞察を容易に利用できるようになりました。Upstream Securityは、Alliance Ventures（ルノー、日産、三菱）、Volvo Group、ヒュンダイ、Nationwide Insurance、Salesforce Ventures、CRV、Glilot Capital Partners、Maniv Mobilityの出資を受けています。

Business Benefits

We believe that securing connected vehicles requires a blank slate approach designed for the unique safety-first requirements of the automotive industry. We pioneered a new approach to security that provides automotive customers with the fastest time to effective security, enabling protection for vehicles already on the road as well as for future vehicles. Our cloud native platform, which delivers security as a service incorporates the security functionality needed to detect threats in real time, across the entire connected vehicle service
and its infrastructure and safely utilize vehicles while enforcing
organizational policies.

video

Vayavision

VAYAVISION
A LeddarTech Company
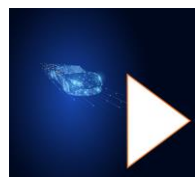
Environnemental Perception Software Solutions for Autonomous Driving
http://www.vayavision.com

About the Company

VayaVision's leading environmental perception solution provides vehicles with crucial information on the dynamically changing driving environment for safer and reliable autonomous driving. The software solution encompasses state of the art raw data fusion with upsampling, AI and computer vision. Working with leading OEMs and Tier 1's globally, VAYAVISION is paving the way for comprehensive autonomous vehicle environmental perception.

VayaVisionの環境認識ソリューションは、より安全で信頼性の高い自律運転のために、動的に変化する走行環境に関する重要な情報を車両に提供します。このソフトウェアソリューションは、アップサンプリング、AI、コンピュータビジョンを用いた最先端の生データフュージョンを網羅しています。VAYAVISIONは、世界の大手OEMやTier1企業と協力して、包括的な自律走行車の環境認識への道を切り開いています。

Business Benefits

High performing, raw-data fusion environmental perception. Hardware, sensor set, and sensor configuration agnostic, customizable for the customer's platform and use case. Supporting all automation levels, from L2+ ADAS all the way to L4-L5 fully autonomous driving.
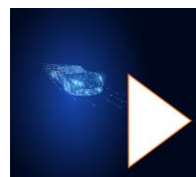
Strategic Partners

Renesas:

https://leddartech.com/leddartech-expands-collaboration-renesas-accelerate-autonomous-driving-adas-development/

Trimble:
https://www.prnewswire.com/news-releases/trimble-and-vayavision-establish-alliance-to-make-intelligent-automation-even-smarter-301245187.html

video

Automotive Israel-Japan
Virtual Event